Dolphin™ 7800

with Windows® Embedded Handheld 6.5

User's Guide

Disclaimer

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Web Address: www.honeywellaidc.com

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Patents

For patent information, please refer to www.honeywellaidc.com/patents.

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Dolphin 7800 Terminal Agency Information

Dolphin 7800 mobile computers meet or exceed the requirements of all applicable standards organizations for safe operation. However, as with any electrical equipment, the best way to ensure safe operation is to operate them according to the agency guidelines that follow. Read these guidelines carefully before using your Dolphin terminal.

This documentation is relevant for the following Dolphin models: 7800L0, 7800LW, 7800LG, 7800LC.

Laser Safety

Label Locations

7800 Back Panel

Compliance Label
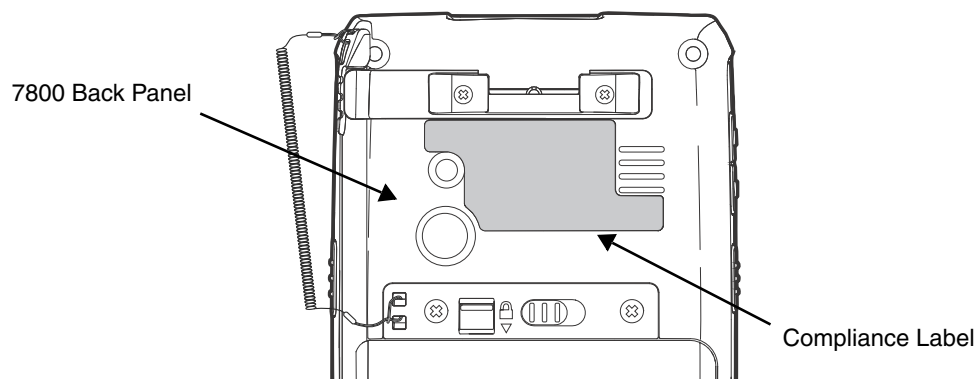
Model Number, Serial Number and IMEI Labels

The model (item) number, serial number, and international mobile equipment identity (IMEI) number for the terminal are located on labels affixed to the walls of the battery well.

Laser Safety Label

If the following label is attached to your product, it indicates the product contains an engine with a laser aimer:

Image Engines with Integrated Laser Aimers

LASER LIGHT. Do not stare into beam.
Class2 Laser Product. 1.0mW MAX
OUTPUT. IEC60825-1 Ed. 2 (2007) pulse
duration of 15.5mSec. Complies with 21
CFR 1040.10 and 1040.11 except for
deviations pursuant to Laser Notice No. 50,
dated June 24, 2007.

Laser Safety Statement

This device has been tested in accordance with and complies with IEC60825-1(Ed. 2.0), EN60825-1:2007. Complies with 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. LASER LIGHT, DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT, 1.0 mW MAX OUTPUT: 650nm.

⚠ *WARNING - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.*

LED Safety

LED Safety Statement

LEDs have been tested and classified as "EXEMPT RISK GROUP" to the Standard: IEC 62471:2006.

⚠ *CAUTION! Do not view directly with optical instruments.*

UL and C-UL Statement

UL and C-UL listed: UL60950-1 2nd Edition, and CSA C22.2 No. 60950-1-07 2nd Edition.

Underwriters Laboratories Inc. (UL) has not tested the performance or reliability of the global positioning system (GPS) hardware, GPS operating software or other GPS-related aspects of this product. UL has only tested for the explosion, fire, shock, and casualty hazards required by the applicable hazardous locations standards. UL certification does not cover the performance or reliability of the GPS hardware, GPS operating software, or other GPS-related aspects of this product. UL makes no representations, warranties, or certifications whatsoever regarding the performance or reliability of any GPS-related functions of this product.

Approvals by Country

Country	EMC, Radio, & SAR	Safety
U.S.A.	FCC Part 15, Subpart B FCC Part 15, Subpart C, 15.247 FCC Part 15, Subpart E FCC Part 22H FCC Part 24E FCC SAR OET 65 Supplement C	UL60950-1 2nd Edition
Canada	ICES-003 (Class B) RSS 132 RSS 133 RSS 310	CSA C22.2 No. 60950-1-07, 2nd Edition
European Community/CE	EN300328, EN301893, EN55022, EN55024, EN301489-1, EN301489-7/24, EN301489-17, 3GPPTS 51.010-1, EN301511, EN301908, EN50360, EN50361, EN50371, EN50392, IEC6220-1, IEC6220-2, EN300440, 301 389-25 (CDMA 2000)	EN60950-1 2nd Edition EN60825-1 2nd Edition
International		IEC 60950-1 2nd Edition IEC 60825-1 2nd Edition IEC 62471

R&TTE Compliance Statement—802.11a/b/g/n, Bluetooth, and/or GSM

Dolphin RF terminals are in conformity with all essential requirements of the R&TTE Directive (1999/5/EC).

This product is marked with CE 0678 ① according to article 12 of the R&TTE Directive. In addition, this product complies to 2006/95/EC Low Voltage Directive when supplied with the recommended power supply. Honeywell shall not be liable for use of our product with equipment (i.e., power supplies, personal computers, etc.) that is not CE marked and does not comply with the Low Voltage Directive.

The equipment is intended for use throughout the European Community; PAN European Frequency Range: 2.402–2.480 GHz. Restrictions for use in France are as follows:

- Indoor use: Maximum power (EIRP*) of 100 mW for the entire 2.400–2.4835 GHz
- Outdoor use: Maximum power (EIRP*) of 100 mW for the 2.400–2.454 GHz band & maximum power (EIRP*) of 10 mW for the 2.454–2.483 MGHz band.
- 5Ghz band: UNII (Unlicensed National Information Infrastructure) or band1 (5.150 to 5.250 GHz) is restricted to indoor use only. Any other use will make the operation of the device illegal.

European Contact:

Hand Held Products Europe B.V.
Nijverheidsweg 9-13
5627 BT Eindhoven
The Netherlands

FCC Requirements

Dolphin RF Terminal—802.11a/b/g/n, Bluetooth, and/or GSM

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference." This is available at FCC local regional offices. Our company is not responsible for any radio or television

interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction is the responsibility of the user. Use only shielded data cables with this system.

In accordance with FCC 15.21, changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION! - Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Canadian Compliance

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and

2. this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et

2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This Category II radiocommunication device complies with Industry Canada Standard RSS-310.

Ce dispositif de radiocommunication de catégorie II respecte la norme CNR-310 d'Industrie Canada.

RF Exposure Information (SAR)

This mobile phone meets the government's requirements for exposure to radio waves. This phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/Kg and for Europe 2W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest reported SAR values for this FCC ID are: GSM 850: 0.475 W/Kg, GSM 1900: 0.364 W/Kg; WCDMA band II: 0.568 W/Kg, WLAN 0.092: W/Kg.

The highest reported CE SAR values for this product are: 900 MHz band: 0.762 W/Kg, 1800 MHz band: 0.626 W/Kg, and WLAN: 0.074 W/kg.

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: HD57800LG and HD57800LW.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and positions the handset a minimum of 1.5 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 1.5 cm from your body when the phone is switched on.

For European Community Users

Honeywell complies with Directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on waste electrical and electronic equipment (WEEE).

Waste Electrical and Electronic Equipment Information

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.

The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems for product disposal. If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration. You may also contact your supplier for more information on the environmental performances of this product.

China RoHS

有毒有害物质名称及含量 (Names and Content of Hazardous Substances or Elements)						
部件名称 (Parts Name)	有毒有害物质或元素 (Toxic and Hazardous Substances or Elements)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr^{6+})	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
成像式条码阅读器 (Imager)	x	o	o	o	o	o
印刷电路板 (PCBA)	x	o	o	o	o	o
主机及基座外壳 (Housing)	x	o	o	o	o	o
连线 (Cables)	o	o	o	o	o	o
液晶显示器 (LCD)	o	o	o	o	o	o
液晶显示器框架 (LCD Frame)	o	o	o	o	o	o
相机模组 (Camera)	x	o	o	o	o	o
键盘 (Keypad)	o					
电池 (Battery)	o	o	o	o	o	o
电源供应器 (Power Adapter)	x	o	o	o	o	o
o: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下 (Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in China's SJ/T11363-2006.) x: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求 (Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirement in China's SJ/T11363-2006.)						

Pacemakers, Hearing Aids and Other Electrically Powered Devices

Most manufacturers of medical devices adhere to the IEC 601-1-2 standard. This standard requires devices to operate properly in an EM Field with a strength of 3V/m over a frequency range of 26 to 1000MHz. The maximum allowable field strength emitted by the Dolphin terminal is 0.3V/m according to Subpart B of Part 1 of the FCC rules. Therefore, the RF from the Dolphin terminal has no effect on medical devices that meet the IEC specification.

Hearing Aid Compatibility (HAC)

The Dolphin 7800 has been tested for hearing aid compatibility. This device has an M3 and T3 rating. For additional HAC information, including the HAC rating for this product, please refer to www.honeywellaidc.com.

When some wireless devices are used near some hearing devices such as hearing aids and implants, users may detect a buzzing or humming noise. Some hearing devices are more immune than others to this interference noise. Wireless devices may also vary in the amount of interference they generate.

The ratings for compatibility of digital wireless devices with hearing aids are described in the American National Standards Institute (ANSI) C63.19 standard:

M-Rating: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference with hearing devices than phones that are not labeled. M4 is the superior/higher of the two ratings.

T-Rating: Phones rated T3 or T4 meet FCC requirements and are likely to be more usable with hearing devices' telecoil than unrated phones. T4 is the superior/higher of the two ratings.

The more immune the hearing aid device is, the less likely one is to experience interference noise from the wireless phone. Hearing aid devices may also be rated. Adding the ratings of the hearing aid and the phone would determine probable usability:

- Any combined rating equal to or greater than six offers the best use.
- Any combined rating equal to five is considered normal use.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use this device successfully. Trying out this device with your hearing device is the best way to evaluate it for your personal needs.

This device has been tested and rated for use with hearing aids for some of the wireless technologies that it utilizes. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility.

Microwaves

The radio in the Dolphin RF terminal operates on the same frequency band as a microwave oven. Therefore, if you use a microwave within range of the Dolphin RF terminal you may notice performance degradation in your wireless network. However, both your microwave and your wireless network will continue to function.

Informações ANATEL (Modelos: 7800LW and 7800L0)

Estes equipamentos estão devidamente certificados e homologados pela ANATEL, em conformidade com as Res. 242 e 323, conforme selos abaixo:

Os modelos 7800LW e 7800L0 também serão comercializados simplesmente pelo nome de Dolphin 7800, conforme descrição neste manual.

Modelo: 7800LW (Dolphin 7800)

1612-12-6583

(01)07898927490225

Modelo: 7800L0 (Dolphin 7800)

1613-12-6583

(01)07898927490232

RESOLUÇÃO 506 - ANATEL

" Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

Este produto está homologado pela Anatel, de acordo com os procedimentos regulamentados pela Resolução No. 242/2000 e atende aos requisitos técnicos aplicados incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofreqüência, de acordo com a Resolução No. 303/2002 e nº 533/2009.

Medida de SAR (distância mínima com relação ao corpo do usuário):

Quando com o acessório (D7800-holster): 0 cm

Quando sem o holster (D7800-holster): 1,5 cm

Compatibilidade entre carregadores, baterias e acessórios:

Os modelos 7800LW e 7800L0 (Dolphin 7800) serão fornecidos com baterias modelo 7800-BTXC, nº de homologação 1161-12-6081.

Explicação: há outros modelos de baterias mencionados neste manual que por enquanto ainda não serão utilizados com o equipamento e, portanto, ainda não foram enviados para certificação.

Os modelos 7800LW e 7800L0 (Dolphin 7800) serão fornecidos com os seguintes carregadores / fontes de alimentação:

Carregador modelo GS120A12: número de homologação ANATEL 1627-12-8023

Este carregador será comercializado com as seguintes bases/docas/periféricos: **7800-CB and 7800-NB**

Carregador modelo FRA036-S12-4: número de homologação ANATEL 1615-12-8020

Este carregador será comercializado com as seguintes bases/docas/periféricos: **7800-HB and 7800-EHB**

Carregador modelo DSA-24CA-05: número de homologação ANATEL 1625-12-8022

Este carregador será comercializado com as seguintes bases/docas/periféricos: **7800-USB and 7800-USBH**

Os modelos 7800LW e 7800L0 (Dolphin 7800) serão comercializados com o seguinte modelo de acessório: **D7800-Holster**.

Para maiores informações, consulte o site da ANATEL - www.anatel.gov.br

2

Getting Started

Out of the Box

Verify that the carton contains the following items:

- Dolphin mobile computer (the terminal)
- Main battery pack
- Quick Start Guide

If you ordered accessories for your terminals, verify that they are also included with the order. Be sure to keep the original packaging in the event that the Dolphin terminal should need to be returned for service. For details, see Product Service and Repair on page 18-1.

Initial Setup for Dolphin 7800 Terminals

Step 1. Release the Hand Strap
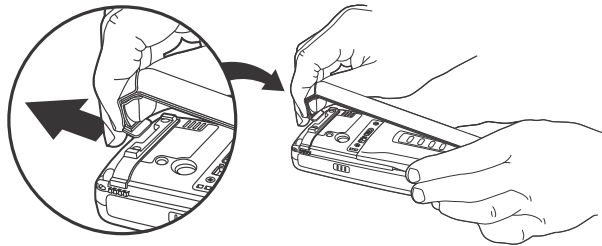
Step 2. Install the Main Battery Pack

Note: Before installing the main battery pack, read the Guidelines for Battery Pack Use and Disposal on page 3-13.

Dolphin 7800 model terminals are designed for use with standard battery pack model 7800-BTSC (Li-ion 3.7 V, 8.9 watt hour) and extended battery pack models 7800-BTXC and 7800-BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc.

The terminal is shipped with the battery packaged separate from the unit. Perform the steps illustrated below to install the main battery. For information on how to remove the battery, see Replacing the Main Battery Pack on page 2-4.

Note: The terminal does not power ON unless the battery is locked 🔒.

⚠ *Ensure all components are dry prior to placing the battery in the terminal. Mating wet components may cause damage not covered by the warranty.*
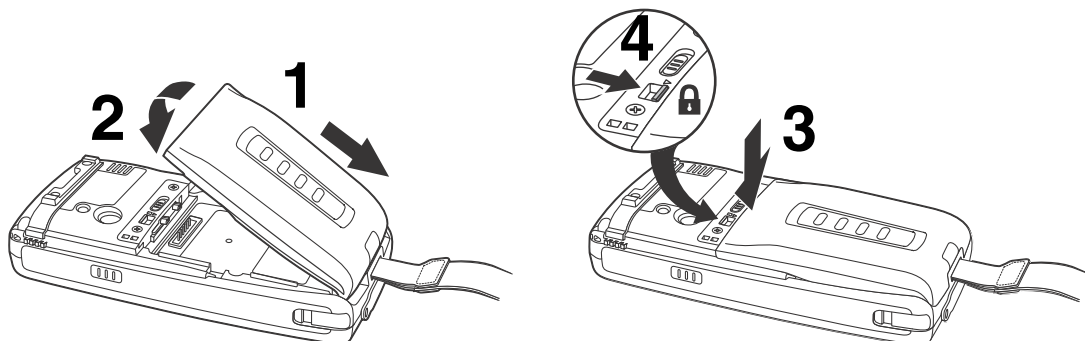
Step 3. Charge the Main and Backup Batteries

The power supply for Dolphin terminals consists of two types of battery power: the main battery pack that is accessible from the back panel, and the backup battery that resides inside the terminal. The main battery powers the terminal. The internal backup battery charges off the main battery and maintains the application data stored in RAM memory for up to 5 minutes when the terminal's main battery pack is completely discharged or removed.

Dolphin 7800 terminals are designed for use with the following 7800 charging devices and cables: 7800-HB, 7800-EHB, 7800-NB, 7800-CB, 7800-DEX, 7800-MC, 7800-MB, 7800-USB, and 7800-USBH. See Chapters 12-17 for additional information on the individual device requirements.

Before Initial Use

Terminals are shipped with both batteries discharged of all power. The initial charging time for the main battery pack is 4 hours for the standard battery pack or 6 hours for the extended battery pack. Connect the terminal to one of the 7800 series charging peripherals to charge; see Peripherals for the 7800 on page 3-3.

Note: Honeywell recommends charging the Dolphin terminal for at least 24 hours prior to initial use to ensure the internal backup battery is fully charged.

⚠️ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Charging Using the Communication Cable

⚠️ *Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.*

Client Device Communication Cable (7800-USB)

Use only a UL Listed power supply, which has been qualified by Honeywell with an output rated at 5VDC and 3A with the device.
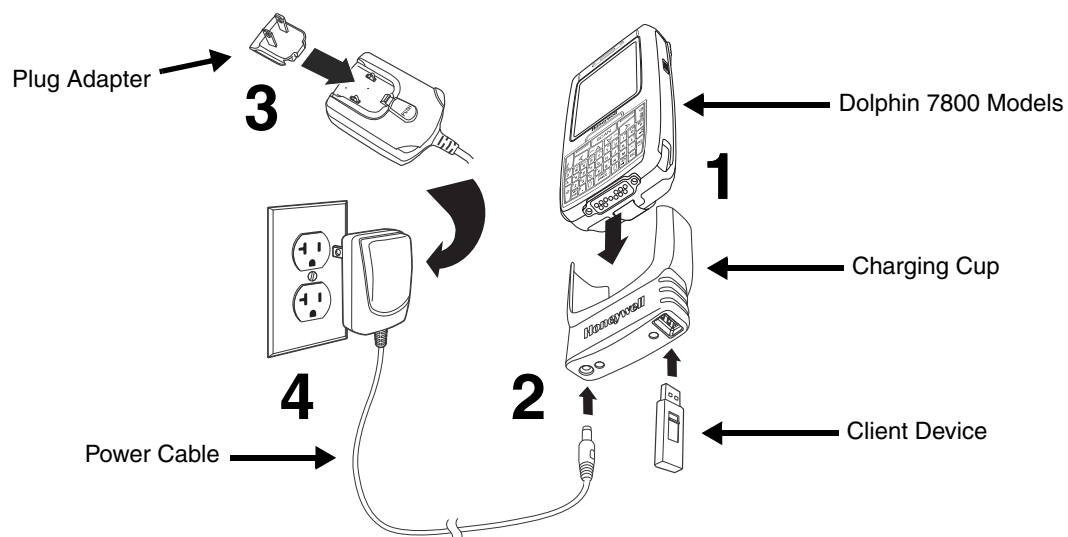
Host Device Communication Cable (7800-USBH, 7800-DEX)

Use only a UL Listed power supply, which has been qualified by Honeywell with an output rated at 5VDC and 3A with the device.
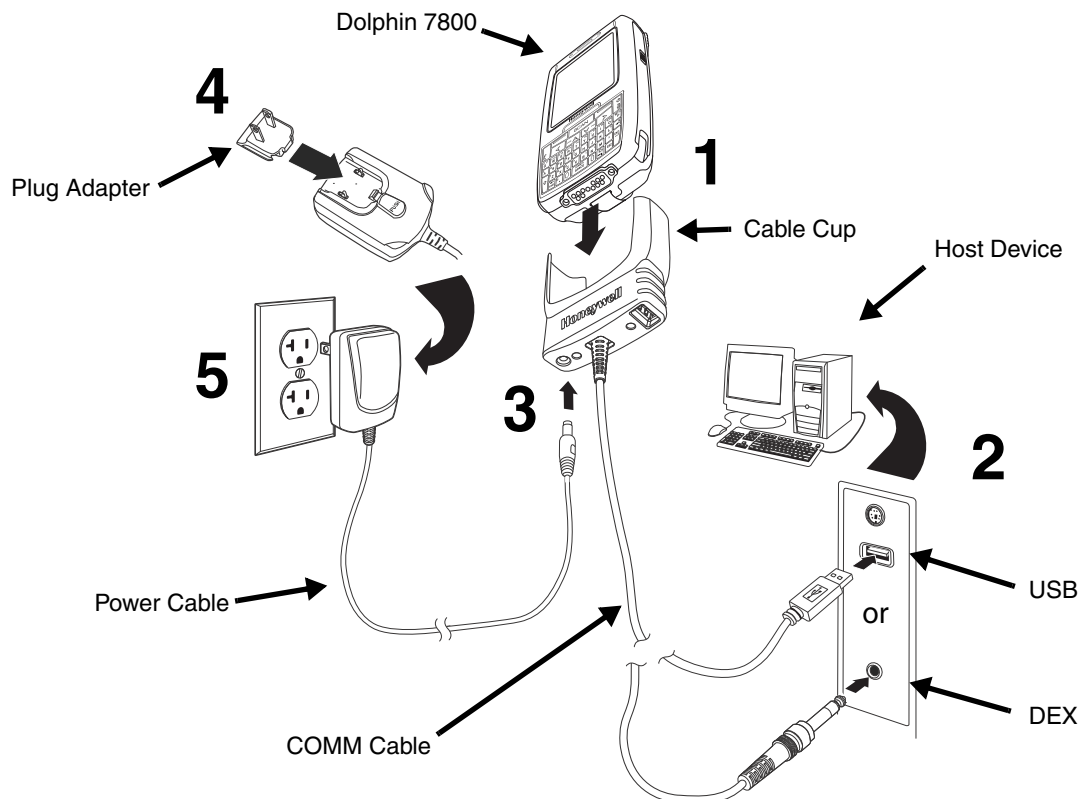
Battery Error Notification

If your terminal displays the following indicators, replace the main battery pack with a Honeywell battery pack. For information on how to remove the main battery pack from the terminal, see Replacing the Main Battery Pack on page 2-4.

- An "Authentication Error" pop up window appears during startup.
- 🚫 appears in the Title bar at the top of the touch screen.
- The General Notification LED flashes red.
- A Notification appears on the Tile bar at the bottom of the touch screen.

Step 4. Boot the Terminal

The terminal begins booting as soon as power is applied. Do NOT press any keys or interrupt the boot process. When the boot process is complete, the Home screen appears, and the terminal is ready for use.

Step 5. Set the Time Zone, Time, and Date

On the Home screen, tap the line that displays the time and date. When the Clock & Alarms screen appears, tap the arrow to the right of the time zone to open the drop down menu. Select the appropriate time zone from the menu. Set the correct time and date in the remaining fields and tap **OK** to save.
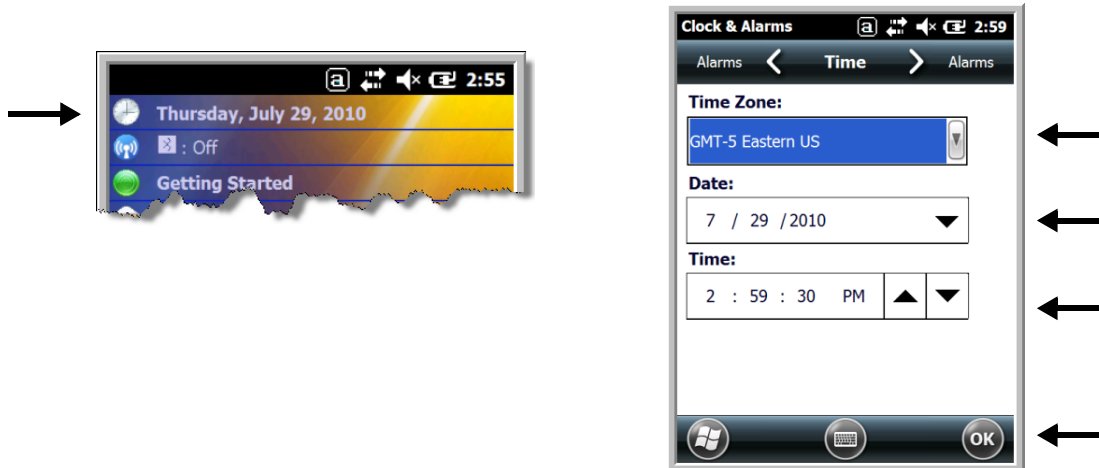
Replacing the Main Battery Pack

Note: Before replacing the main battery pack, read the Guidelines for Battery Pack Use and Disposal on page 3-13.

⚠ Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

1. Press and hold the Power key ⏻ for approximately 5 seconds to put the terminal in Suspend Mode (see page 2-11).

2. Release the hand strap near the speaker on the back panel of the terminal.

3. Unlock the battery by sliding the latch away from the battery.

4. **Wait at least 3 seconds**, then slide the battery release button away from the stylus slot.

5. Remove the battery.
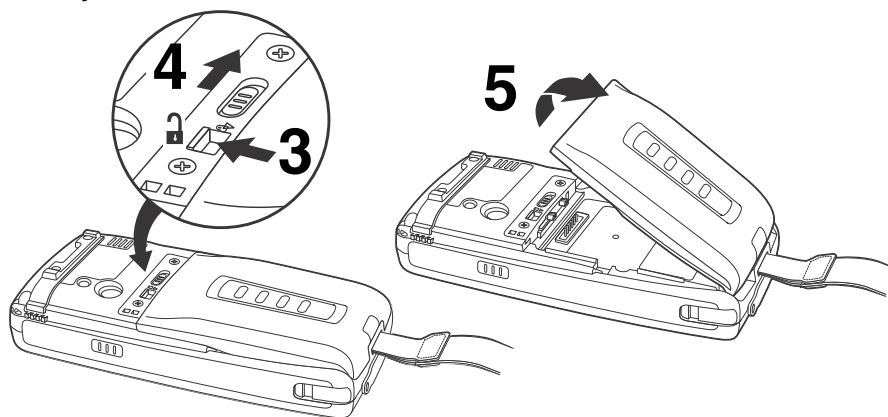
6. Insert the new battery and apply gentle pressure to engage the latch.

    Note: Make sure the stylus tether is not caught under the battery during installation.

7. Lock the battery by sliding the latch toward the battery pack.

    Note: The terminal does not power ON unless the battery is locked.

8. Reattach the hand strap.

9. Press the Power key or the SCAN key to wake the terminal from Suspend Mode (see page 2-11).

⚠ *We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Home Screen

After the Dolphin terminal initializes the first time, you see the Home screen.

Tap 🪟 to reach the Start screen from the Home screen.

Tap 📶 to access the Dolphin Wireless Manager (see page 8-4) from the home screen.
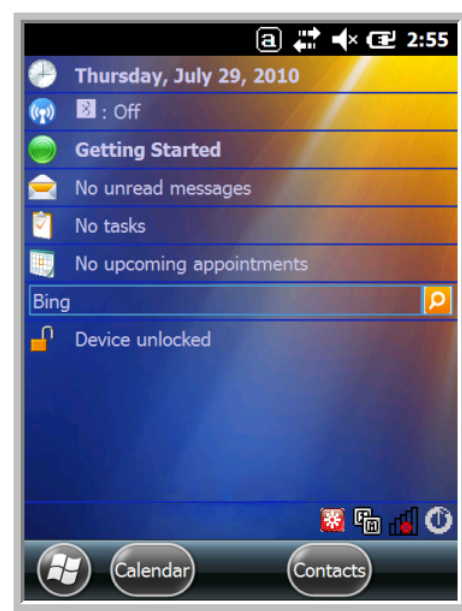
Title Bar

The Title bar, located at the top of the screen, displays the active program, the status of various system functions, and the current time. Tapping on the title bar provides access to the Horizontal Scroll. The scroll provides access to additional programs and application screens. For additional information, see Horizontal Scroll on page 2-8.

Text here indicates the active program. ➡ Clock & Alarms ⬅ Icons here indicate the status of various system functions.

Icons in the Title Bar

Indicator	Meaning
↻	Synchronizing data
📵	The terminal could not synchronize data with the workstation via ActiveSync.
✉	New e-mail
📩	New text message

Icons in the Title Bar

Indicator	Meaning
	New voicemail
	New instant message
	Vibrate on
	Ringer off
	Speakerphone on
	Voice call in progress
	Calls are forwarded
	Call on hold
	Missed call
	Data call in progress
	A battery error has occurred. Replace the main battery pack with a Honeywell Li-ion battery pack.
	Battery is has a full charge
	Battery has a high charge
	Battery has a medium charge
	Battery has a low charge
	Battery has a very low charge and requires charging
	Terminal is running on external power. If a battery pack is installed, the battery is charging in the background.
	The terminal is not connected to external power. A battery is installed, but is defective; specifically, its charge level cannot be measured.
	No SIM card is installed
	Active network connection
	No active network connection

Icons in the Title Bar

Indicator	Meaning
G	GPRS available
G	GPRS connecting
G	GPRS in use
H	HSDPA available
H	HSDPA connecting
H	HSDPA in use
E	EDGE available
E	EDGE connecting
E	EDGE in use
3G	UMTS available
3G	UMTS connecting
3G	UMTS in use
▽x	Radio is off
▽!	The radio is not connected to a network.
▽ill	The radio is connected. The bars indicate the signal strength.
▽	No radio signal
▽...	The terminal is searching for a signal.
♀	Wi-Fi is on, but device is not connected
♀	Wi-Fi data call
🔔	Pending alarm
✳	Bluetooth

Horizontal Scroll

The Horizontal Scroll, located at the top of most application windows, provides access to additional application screens. You can flick left or right on the scroll or tap each label on the scroll, until you get to the desired screen. Tapping a label to the left or right of the center item brings new labels into view.

Note: Tap the Title bar to access the horizontal scroll if it is not visible on the screen.

The content of the Horizontal scroll changes according to the open application.
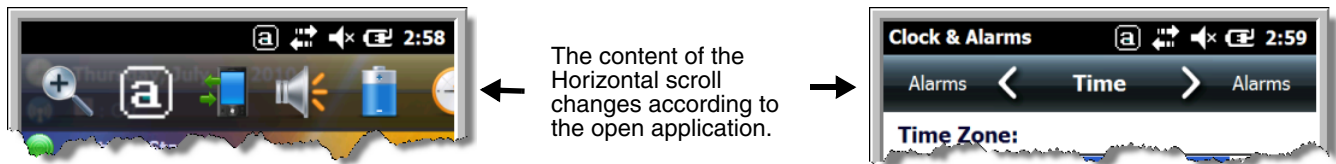
Tile Bar

The Tile bar is located at the bottom of application windows.

The Task tray displays icons for programs running in the background.

The Tile bar displays icons you use to open and close screens, menus, and features.

The icons change according to the open application.
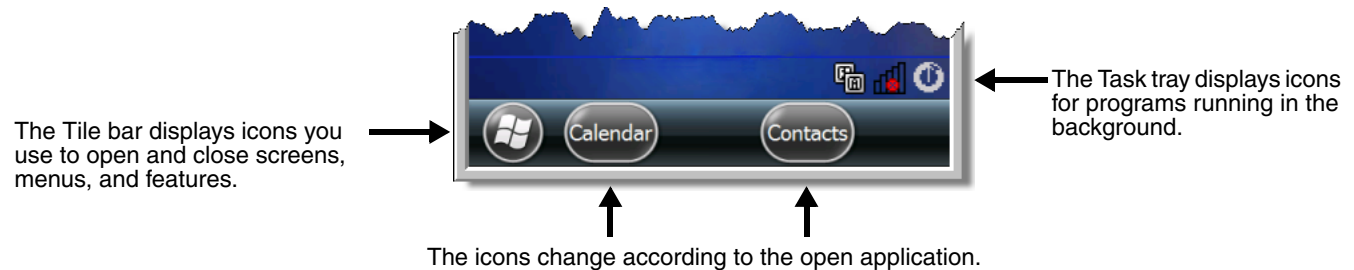
Pop-Up Menus

With pop-up menus, you can quickly choose an action for a selected item. To access a pop-up menu, tap and hold the stylus on the item name of the action you want to perform. When the menu appears, lift the stylus, and tap the action you want to perform.

Tap anywhere outside the menu to close the menu without performing an action.

Selecting Programs

To see the programs loaded on your terminal, tap to access the Start Menu. To open a program, tap once on the program icon. To reposition an icon on the Start Menu, tap and hold the stylus on the icon, then drag the icon to the desired position.

File Explorer

You can also use the File Explorer to find files and organize these files into folders.

1. Tap ⊞ > File Explorer 🔍 .
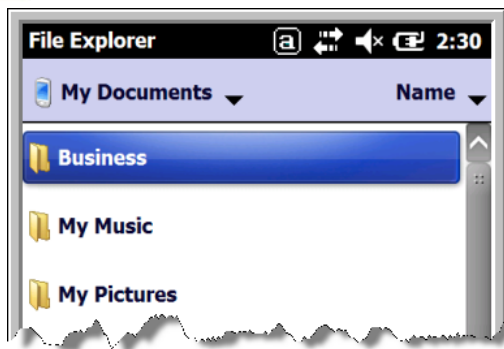
2. Tap the **Up** button at the bottom of the screen to move up one level in the directory.

3. You can move files in File Explorer by tapping and holding on the item you want to move, then tapping **Cut** or **Copy** on popup menu.

4. Navigate to the folder you want to move the file to, then tap and hold a blank area of the window.

5. Tap **Paste** on the pop-up menu.

*Note: If there is no blank space available in the window, tap **Menu** on the command bar, navigate to the end of the menu using the down arrow, then tap **Edit** > **Paste**.*
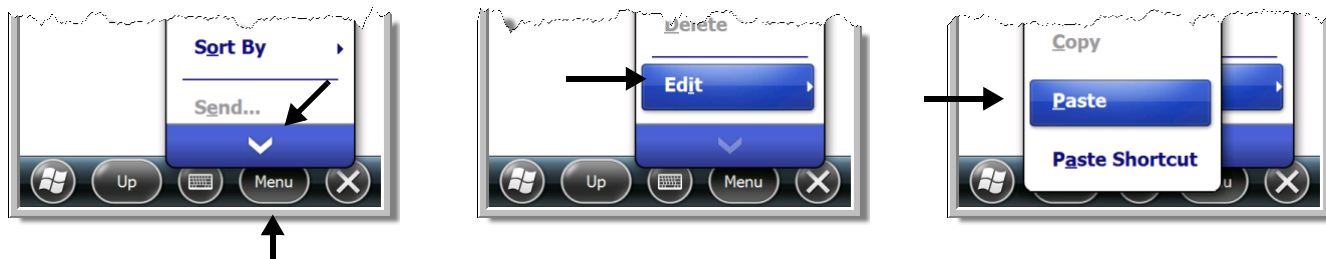
File Provisioning on the 7800

\IPSM\Honeywell

The IPSM folder is the only partition on the 7800 that persists across a kernel upgrade (*.UPG file extension). During a kernel upgrade, files are automatically copied from the \IPSM\Honeywell\Autoinstall folder and then installed in the \Honeywell (root file system) folder as part of the upgrade process.

\IPSM\Honeywell\AutoInstall

The files in the IPSM\Honeywell\AutoInstall folder are only installed when a factory reset or kernel upgrade occurs. Once the files are installed, they persist through hard and soft resets. If a file is added to the folder and a hard or soft reset is performed, it will have no effect. If a program is manually removed using the Remove Programs application (see page 7-16), then the program is not automatically re-installed on a hard or soft reset.

\Honeywell

The Honeywell partition or root file system partition is persistent over a Hard Reset, Soft Reset, and the removal of the battery pack or the removal of AC power. However, during a kernel upgrade the root file system is reformatted so all data in the folder is deleted and replaced by any files in the \IPSM\Honeywell\AutoInstall folder as part of the upgrade process.

⚠ To prevent data loss, back up all user data to an SD card or external memory device before performing an upgrade.

\Honeywell\AutoInstall

If you run a CAB file from within the \Honeywell\AutoInstall (user store) folder, after the program has been installed, the CAB file will be deleted from the User Store. The program remains installed through all successive Hard and Soft resets.

If you want the program to be part of the Autoinstall that occurs after a factory reset or software upgrade, paste the program file(s) in both the \IPSM\Honeywell\Autoinstall folder and the \Honeywell\Autoinstall.

Contact a Honeywell technical support representative for information on how to perform a factory reset or for information on available software upgrades for your Dolphin terminal. For contact information, see Customer Support on page 18-1. or go to www.honeywellaidc.com.

⚠ To prevent data loss, back up all user data to an SD card or external memory device before performing an upgrade.

Search

The Search feature helps you quickly locate information. Tap > **Search Phone** .

Enter the text you want to find, select a data type, and then tap **Search**. Select **Larger than 64 KB** in the **Type** drop-down field to quickly find information that is taking up storage space.

Resetting the Terminal

There are three types of system resets: a soft reset, a hard reset, or a factory reset. The soft and hard resets preserve all data stored in the file system. Contact a Honeywell technical support representative for more information on how to perform a factory reset.

Soft Reset (Warm Boot)

A soft reset re-boots the device and preserves any objects created in RAM. You would perform a soft reset when: the terminal fails to respond, after installing some software applications, or after making changes to certain system settings, such as network cards.

1. Press and hold the BLUE + END keys for approximately 5 seconds.

2. The general notification LED flashes orange then green for approximately 3 seconds as the terminal resets.

3. When the reset is complete, the Home screen displays.

Hard Reset (Cold Boot)

A hard reset re-boots the device and closes any open applications running in RAM at the time of the reset.

1. Press and hold the BLUE + SEND keys for approximately 5 seconds.

2. The general notification LED flashes orange then green for approximately 3 seconds as the terminal resets.

3. The terminal re-initializes.

Factory Reset

Contact a Honeywell technical support representative for information on how to perform a factory reset. For contact information, see Customer Support on page 18-1.

Suspend Mode

The terminal goes into Suspend Mode automatically when the terminal is inactive for a programmed period of time. You can program this time on the Advance tab of the Power System Setting; see Power on page 7-15.

To put the terminal into Suspend Mode manually, press and hold the POWER key for approximately 5 seconds until the touch screen turns off.

To wake the terminal from Suspend Mode, press the POWER key or SCAN key.

Note: You should always put the terminal in suspend mode before removing the battery. For information on removing the battery, see Replacing the Main Battery Pack on page 2-4.

3

Hardware Overview

Standard Configurations for the 7800

WLAN & WPAN

- Microsoft Windows Embedded Handheld 6.5 Classic
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion standard battery pack or extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n and Bluetooth

WLAN, WPAN, with GPS

- Microsoft Windows Embedded Handheld 6.5 Classic
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion standard battery pack or extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n and Bluetooth
- GPS

WLAN, WPAN, & WWAN

- Microsoft Windows Embedded Handheld 6.5 Professional
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/ HSPA+

WLAN, WPAN & Camera

- Microsoft Windows Embedded Handheld 6.5 Classic
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion standard battery pack or extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n and Bluetooth
- 3.0 megapixel auto control color camera

WLAN, WPAN, with GPS & Camera

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- 802.11a/b/g/n and Bluetooth
- GPS
- 3.0 megapixel auto control color camera

WLAN, WPAN, & WWAN with GPS

- Microsoft Windows Embedded Handheld 6.5 Professional
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/ HSPA+
- GPS

WLAN, WPAN, WWAN with GPS & Camera

- Microsoft Windows Embedded Handheld 6.5 Professional
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/ HSPA+
- GPS
- 3.0 megapixel auto control color camera

WLAN, WPAN, & WWAN

- Microsoft Windows Embedded Handheld 6.5 Professional
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/CDMA

WLAN, WPAN, & WWAN with GPS

- Microsoft Windows Embedded Handheld 6.5 Classic
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/CDMA
- GPS

WLAN, WPAN, WWAN with GPS & Camera

- Microsoft Windows Embedded Handheld 6.5 Classic
- 800MHz TI OMAP Processor
- 256MB RAM X 512MB Flash
- Six keyboard options
- 3.7V Li-ion extended rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/ HSPA+ or GSM/CDMA
- GPS
- 3.0 megapixel auto control color camera

Some configurations of the 7800 terminal are available with an external housing made of plastic that is specifically designed for the healthcare industry. For more information, see

Peripherals for the 7800

Each of the following items is sold separately to enhance the capabilities of your Dolphin terminal.

Dolphin 7800 HomeBase Device

The Dolphin 7800 HomeBase device is a charging and communication cradle equipped with a USB host port that is Hi-Speed 2.0v compliant, which enables the terminal to interface with the majority of PC-based enterprise systems. This device also contains an auxiliary battery well that charges a spare Honeywell standard or extended battery pack.

For more information, see Dolphin 7800 HomeBase Device (Model 7800-HB) on page 12-1.

Dolphin 7800 Mobile Base Device

The Dolphin 7800 Mobile Base device is a charging and communication cradle designed specifically for in-premise and in-transit data collection applications. It features a flexible mounting bracket and a cigarette lighter adapter to adapt it to your environment.

For more information, see Dolphin 7800 Mobile Base Device (Model 7800-MB) on page 14-1.

Dolphin 7800 eBase Device

The Dolphin 7800 Ethernet (eBase) device enables a single 7800 mobile computer to communicate with a host device over an Ethernet network. In addition, the ebase is equipped with a USB host port that is Hi-Speed 2.0v compliant, which enables the terminal to interface with the majority of PC-based enterprise systems. This device also contains an auxiliary battery well that charges a spare Honeywell standard or extended battery pack.

For more information, see Dolphin 7800 eBase Device (Model 7800-EHB) on page 13-1.

Dolphin 7800 Net Base Device

The Dolphin 7800 Net Base device enables up to four 7800 mobile computers to communicate with a host device over an Ethernet network. In addition, the Net Base provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, eBase, or another Net Base.

For more information, see Dolphin 7800 Net Base Device (Model 7800-NB) on page 16-1.

Dolphin 7800 ChargeBase

The Dolphin 7800 ChargeBase is a 4-slot charging cradle that holds, powers, and charges terminals.

For more information, see Dolphin 7800 ChargeBase Device (Model 7800-CB) on page 15-1.

Dolphin 7800 QuadCharger Device

The Dolphin 7800 QuadCharger device is a 4-slot charging station for Dolphin 7800 standard or extended battery packs.

For more information, see Dolphin 7800 QuadCharger Device (Model 7800-QC) on page 17-1.

Accessories for the 7800

Each of the following items is sold separately to enhance your terminal's capabilities.

Note: When using accessories where the terminal is worn on the body, the terminal's touch panel must face away from the body.

Dolphin 7800 Mobile Charger

The Dolphin 7800 Mobile Charger is a charging cable that connects the terminal directly to a 12 Volt DC power source, such as a cigarette lighter port inside a vehicle, eliminating the need for a cradle. Intelligent battery technology on-board the terminal ensures proper charging. The Dolphin 7800 Mobile Charger is an ideal low-cost charging solution for in-transit mobile applications.

Communication/Charging Cables

Dolphin communication/charging cable kits are an all-in-one solution for mobile applications. Each cable kit powers the terminal, charges its main battery, and communicates with host or peripheral devices without the need for a cradle. Cable kits can support USB client or USB host communications.

Storage Holster

The storage holster provides convenient storage for the Dolphin terminal in mobile environments. The holsters feature a belt loop to secure the holster to a belt.

Stylus Kits

Each Dolphin is shipped with a stylus and a stylus tether used to secure the stylus to the terminal to prevent loss. Kits containing three styli and three tethers are available for purchase.
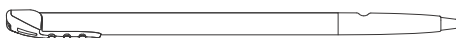
Battery Pack

The rechargeable battery pack provides the main power for the terminal. For more information, see Batteries on page 3-12.

Front Panel: 7800
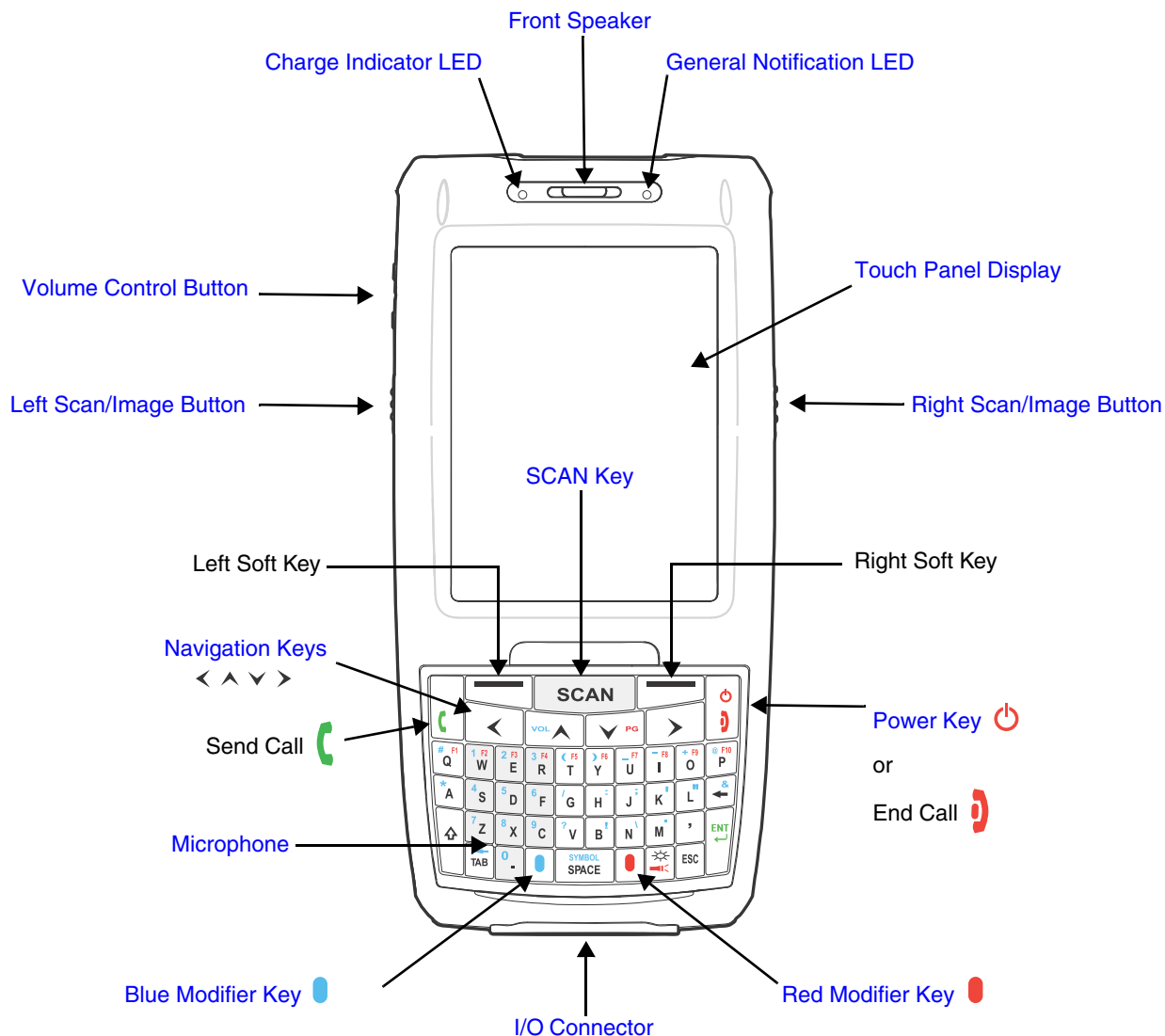
Front Speaker

Charge Indicator LED   General Notification LED

Volume Control Button   Touch Panel Display

Left Scan/Image Button   Right Scan/Image Button

SCAN Key

Left Soft Key   Right Soft Key

Navigation Keys

Send Call

Power Key

or

End Call

Microphone

Blue Modifier Key   Red Modifier Key

I/O Connector

Note: Your Dolphin model may differ from the model illustrated; however, the features noted are standard for all 7800 models unless otherwise indicated. For a complete overview of the optional keyboards available for the 7800, see Using the Keyboards on page 6-1.

For a description of each callout, see see Front Panel Features for the 7800 on page 3-6.

Front Panel Features for the 7800

Blue Modifier Key

See Using the Modifier Keys on page 6-3.

Charge Indicator LED

The light emitting diode (LED) located above the top left corner of the LCD display illuminates when the Power Tools **BattMon** application is enabled and the device is on AC charge. For more information, consult the Dolphin Power Tools User's Guide for Windows Embedded Handheld 6.5.

Front Speaker

The front speaker is the receiver for handset voice calls. See Voice Communication, Using the Dolphin as a Phone on page 9-3.

General Notification LED

The light emitting diode (LED) located above the top right corner of the LCD display flashes and illuminates during resets, scanning/imaging, and taking a picture. This LED can be programmed by various software applications.

Left Scan/Image Button

By default, the Left Button triggers the scanner/imager. You can reassign the button to launch applications or execute commands. For additional information, see Changing Button Assignments on page 7-4.

Microphone

The integrated microphone that provides audio input for handset and speakerphone voice calls. See Voice Communication, Using the Dolphin as a Phone on page 9-3.

Navigation Keys

The centrally located navigation keys enable you to move and position the cursor through software programs. The up and down arrows are programmed to perform specific functions when pressed in combination with the Blue and Red modifier keys. For more details, see Using the Navigation Keys on page 6-3.

Power Key

The Power key, located in the upper right corner of the keypad, puts the terminal in Suspend Mode or wakes the terminal from Suspend Mode. See Suspend Mode on page 2-11. The key is also used to end/disconnect a phone calls.

There are multiple keyboard options available for the 7800. For a complete overview of each keyboard, see Using the Keyboards on page 6-1.

Red Modifier Key

See Using the Modifier Keys on page 6-3.

Right Scan/Image Button

By default, the Right Button triggers the scanner/imager. You can reassign the button to launch applications or execute commands. For additional information, see Changing Button Assignments on page 7-4.

SCAN Key

The SCAN key is centrally located for easy access with the right or left hand. When pressed, the SCAN key activates the scanner/imager. The SCAN key also functions as a system wake-up control for the terminal.

Touch Panel Display

The color 3.5 inch 64k color liquid crystal display (LCD) touch panel is covered with an industrial, protective lens for greater durability. The video graphic array (VGA) display resolution is 480 X 640.

The touch panel backlight illuminates when the screen is touched, but not when the Backlight key is pressed. For more information, see Backlight on page 7-9.

The touch panel can be activated by the stylus (included with the terminal). For more information, see Using the Touch Panel on page 3-11.

Volume Control Button

Press the top or bottom of the volume button to raise or lower the volume of the active speaker.

Back Panel: 7800

Image/Scan Engine Window*

Stylus/Stylus Slot

Hand Strap Hook

Stylus Tether

Rear Speaker

Flashlight/Camera Flash

Fastener for the Stylus Tether

Color Camera

Battery Lock

Battery Release Button

Hand Strap

Battery

Memory Card Socket and SIM Card Socket
(located under protective shield)

Battery Well

Memory/SIM Shield Screws, Qty. 2
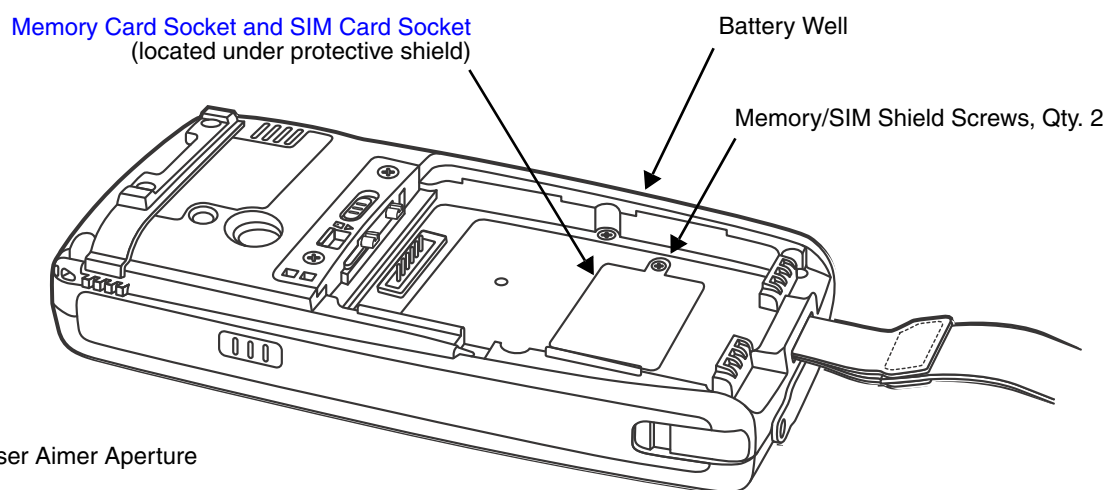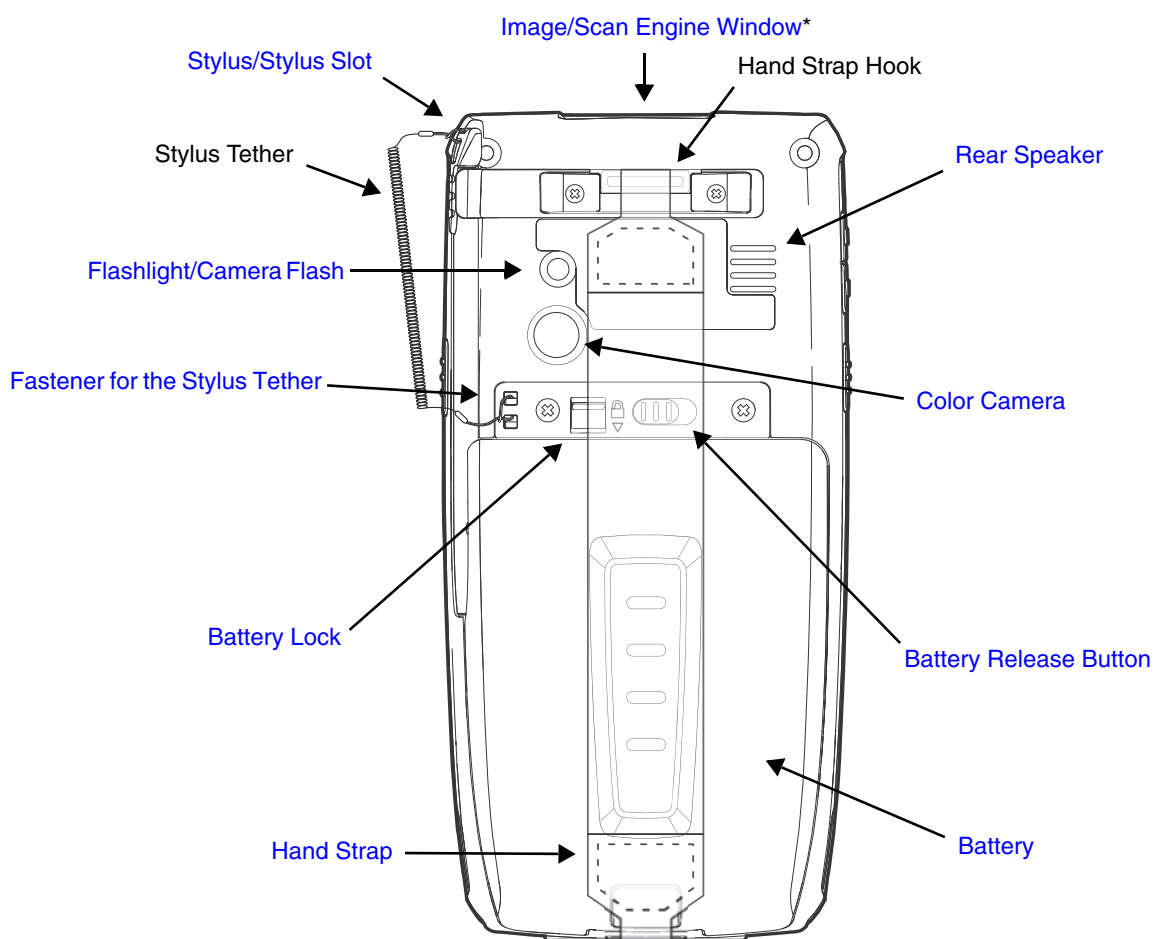
* LED and Laser Aimer Aperture

Note: Your Dolphin model may differ from the model illustrated; however, the features noted are standard for all 7800 models unless otherwise indicated.

For a description of each callout, see Back Panel Features for the 7800 on page 3-9.

Back Panel Features for the 7800

Battery

Dolphin 7800 model terminals are designed for use with standard battery pack model 7800-BTSC (Li-ion 3.7 V, 8.9 watt hour) and extended battery pack models 7800-BTXC and 7800-BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc. For information on how to remove the battery, see Replacing the Main Battery Pack on page 2-4.

Battery Lock

The Battery Lock allows the user to lock the battery pack in place preventing battery loss due to accidental activation of the battery release. The battery release button has no effect if the Battery lock is engaged. The terminal does not power ON unless the Battery Lock is engaged.

Battery Release Button

The Battery Release Button ejects one end the battery from the terminal for easy battery removal. The battery release button has no effect if the Battery lock is engaged. For information on how to remove the battery, see Replacing the Main Battery Pack on page 2-4.

Color Camera

The 3.0-Megapixels Resolution color camera provides easy picture capture with Automated Camera Control (ACC). Additional features include automated picture profiles and an Application Programming Interface (API).

Fastener for the Stylus Tether

The Stylus Tether helps prevent accidental loss when the stylus is not stored in the stylus slot. A stylus tether is a coiled, elastic cord that tethers the stylus to the terminal. Secure one end of the cord to the back panel of the terminal and the other end to the stylus.

Flashlight/Camera Flash

The flashlight/camera flash is located on the back panel of the terminal. When used as a Flashlight, press the Red key + ◼◀◀ key to turn the flashlight ON or OFF. When used as a Camera Flash with the terminal's color camera, the flash is controlled by the camera application.

Hand Strap

The 7800 comes with an elastic hand strap. One end of the hand strap can be released to provide easy access to the battery pack. The hand strap release hook is located near the speaker on the back panel of the terminal.

Image/Scan Engine Window

The available image engines read and decode linear, stacked linear (e.g., PDF417), and 2D matrix bar code symbologies. Some of the available engine models contain a laser aimer for greater accuracy. The laser apertures for the imaging engines' laser aimers are contained behind this window. For more details, see Using the Scan Image Engine on page 4-1.

Memory Card Socket and SIM Card Socket

The memory card socket provides the user with the option to expand the terminal's memory capacity using microSD™ or microSDHC™ memory interfaces. The expansion socket is located under the main battery in the battery well.

Note: *Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards with Dolphin terminals for maximum performance and durability. Contact a Honeywell sales representative for additional information on qualified memory card options.*

The card socket for the Subscriber Identity Module (SIM) is also located under the main battery in the battery well. When the protective SIM/memory card cover and battery pack are properly installed, the cards are sealed against moisture and particle intrusion, read/write data is stored securely, and the terminal's environmental rating is preserved; see Installing a SIM Card and/or Memory Card on page 3-16.

Rear Speaker

The integrated rear speaker sounds audio signals as you scan bar code labels and enter data. The integrated speaker also supports playback of wave and MP3 files, software mixer, and Speakerphone for WWAN/GSM audio. The operating frequency range is 600-3000Hz at >90dB.

Stylus/Stylus Slot

The stylus is used to operate the touch panel. The back panel of the terminal features a storage slot to hold the stylus when not in use. The stylus features a special tip for added accuracy and ease of use.
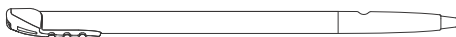
Bottom Panel: 7800

Pin	Description
1	PWR
2	PWR
3	USB1 HOST D-
4	USB1 HOST 5V OUT
5	USB1 HOST D+
6	A_GND
7	USB Client D+
8	USB Client VBUS
9	USB Client D-
10	GND
11	GND
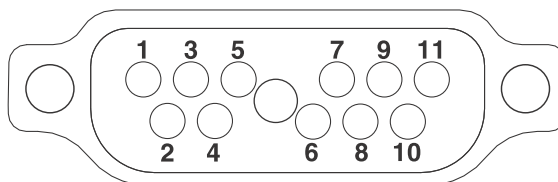
Note: Signals referenced are for a DTE device.

I/O Connector

The I/O connector powers the terminal, charges the main battery, and facilitates communication. All Dolphin peripherals are designed to work exclusively with this connector. The I/O connector supports high speed USB v2.0 communication with a maximum rate of 480 Mbps.

I/O Power Out

The I/O connector also provides power out (to peripheral devices) +5V at 500mA. This means that, with the proper cable, the terminal can power another device. By default, power out is disabled, but the 5V output may be enabled, see Five Volt Control on page 7-12.

Using the Touch Panel

Honeywell defines proper use of the terminal touch panel as using a screen protector and proper stylus. Screen protectors maintain the ongoing integrity (i.e., prevent scratching) of the touch panel, which is why their use is recommended for applications that require a high to medium level of interface with the touch panel, such as signature capture for proof of delivery.

Honeywell advocates the use of screen protectors on all Dolphin devices. We recommend implementing a screen protector replacement program to ensure that screen protectors are replaced periodically when signs of damage/wear are noticeable.

Replacement screen protectors can be purchased directly from Honeywell. Please contact a Honeywell sales associate for details.

Honeywell also mandates use of a proper stylus, which is one that has a stylus tip radius of no less than 0.8 mm. Use of the Honeywell stylus included with the terminal is recommended at all times.

Honeywell warranty policy covers wear on the touch panel for the first twelve (12) months if a screen protector is applied and an approved stylus is used for the 12 month duration covered by the warranty.

Installing a Screen Protector

Dolphin terminals ship with a screen protector already installed. You will need to replace the screen protector at regular intervals.

1. After the current screen protector has been removed from the touch panel, clean the touch panel thoroughly with a clean, non-abrasive, lint-free cloth. Make sure there is no debris on the touch panel.

2. Align the exposed section of the protector with the edge of the touch panel. Make sure that the screen protector is flush with edges of the touch panel. To reposition, lift up gently and reapply.

3. Press the screen protector firmly and carefully across the surface of the touch panel as you peel away the backing.

4. If necessary, smooth out any air pockets or bumps.

Healthcare Housing

Some configurations of the 7800 terminal are available with an external plastic housing that is designed to resist the effects of harsh chemicals in a healthcare environment. The plastic is crystalline in nature, which helps prevent chemicals from seeping through the housing.

Important! The following cleaning solutions have been tested to assure safe cleaning of your terminal's disinfectant-ready housing. They are the only solutions approved for use with these terminals. Damage caused by the use of cleaners other than those listed below may not be covered by the warranty.

• Sani-Cloth® Plus wipes
• Gentle dish soap and water

Batteries

There are two types of battery power: the main battery pack installed in the back panel and the backup battery located inside the terminal. They are designed to work together to prevent data loss when the terminal is in use over long periods.

Both batteries must be completely charged before using a Dolphin terminal for the first time!

Main Battery Pack

⚠ *We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Dolphin 7800 model terminals are designed for use with standard battery pack model 7800-BTSC (Li-ion 3.7 V, 8.9 watt hour) and extended battery pack models 7800-BTXC and 7800-BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc.

Charging Options

When the main battery pack is installed in the terminal, use one of the following peripherals:

• Dolphin 7800 HomeBase Device (Model 7800-HB) (see page 12-1)
• Dolphin 7800 eBase Device (Model 7800-EHB) (see page 13-1)
• Dolphin 7800 Mobile Base Device (Model 7800-MB) (see page 14-1)
• Dolphin 7800 ChargeBase Device (Model 7800-CB) (see page 15-1)
• Dolphin 7800 Net Base Device (Model 7800-NB) (see page 16-1)

When the main battery pack is not installed in the terminal:

• Place the battery pack in the Dolphin 7800 QuadCharger Device (Model 7800-QC) (see page 17-1)
• Place the battery pack in the Auxiliary Battery Well of the Dolphin 7800 HomeBase Device (Model 7800-HB) (see page 12-1) or Dolphin 7800 eBase Device (Model 7800-EHB) (see page 13-1).

For information on how to remove the main battery pack from the terminal, see Replacing the Main Battery Pack on page 2-4.

Charging Time

The standard battery pack requires 4 hours to charge completely before initial and the extended battery pack requires 6 hours to charge completely before initial use.

Honeywell recommends charging the Dolphin terminal for at least 24 hours prior to initial use to ensure the internal backup battery is fully charged.

Battery Error Notification

If your terminal displays the following indicators, replace the main battery pack with a Honeywell Li-ion 7800 standard or extended battery pack. For information on how to remove the main battery pack from the terminal, see Replacing the Main Battery Pack on page 2-4.

- 🔴 appears in the Title bar at the top of the touch screen.
- The General Notification LED flashes red.
- A Notification appears on the Tile bar at the bottom of the touch screen.

Storing Batteries

To maintain top performance from batteries, avoid storing batteries outside of the following temperature ranges:

- 14°F to 113°F (-10°C to +45°C) for short term storage of less than one month
- 32°F to 86°F (-0°C to +30°C) for long term storage

Do not store batteries in extremely high humidity. For prolonged storage, do not keep batteries stored in a charger that is connected to a power source.

Guidelines for Battery Pack Use and Disposal

The following are general guidelines for the safe use and disposal of batteries:

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Improper battery use may result in a fire, explosion or other hazard.
- We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may pose a personal hazard to the user.
- Only use the battery for the system for which it is specified. Do not use a battery in any other manner outside its intended use in Dolphin terminals and peripherals.
- Only use the battery with a charging system that has been qualified with the system per standard IEEE-Std-1725-2006. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Replace defective batteries immediately; using a defective battery could damage the Dolphin terminal.
- Never throw a used battery in the trash. Promptly dispose of used batteries in accordance with local regulations.
- Do not short-circuit a battery or throw it into a fire; it can explode and cause severe personal injury. Do not allow metallic conductive objects to contact battery terminals.
- If you observe that the Honeywell battery supplied is physically damaged, please send it to Honeywell International Inc. or an authorized service center for inspection, see Product Service and Repair on page 18-1.
- Avoid dropping the terminal or battery. If the terminal or battery is dropped, especially on a hard surface, and the user suspects damage, send it to a Honeywell International Inc. or an authorized service center for inspection.
- If you are not sure the battery or charger is working properly, send it to Honeywell International Inc. or an authorized service center for inspection, see Product Service and Repair on page 18-1.
- Excessive discharge can degrade battery performance. Recharge the battery when your terminal indicates low battery power.

- Although your battery can be recharged many times, the battery life is limited. Replace it after the battery is unable to hold an adequate charge.

Internal Backup Battery

Located inside the terminal is a 3.6 Volt nickel metal hydride (NiMH) backup battery. The backup battery prevents the terminal from being reset if you need to replace the main battery pack. It retains RAM data during the battery pack exchange. A fully charged backup battery provides 5 minutes of data backup time.

Note: A fully charged backup battery preserves RTC content for approximately 168 hours when the terminal is in suspend mode and the main battery is not installed or completely depleted of charge.

If at any time the backup battery becomes fully discharged of power (e.g., the terminal is left without the main battery pack for more than 5 minutes), the terminal resets when power is supplied. All files are retained, but you may need to restart any running applications. In addition, a fully discharged backup battery requires a minimum of 24 hours of charging time to reach a full charge.

Note: Data and programs stored in Flash memory are not lost even if the internal backup battery fails.

Charging

The internal backup battery is powered by the main battery pack. Therefore, charging the internal battery requires a charged main battery pack be installed in the terminal and the terminal be connected to a charging device.

The internal backup battery must be fully charged before using the terminal for the first time. Honeywell recommends charging the Dolphin terminal for at least 24 hours prior to initial use to ensure the internal backup battery is fully charged. After that, if the internal backup battery becomes fully discharged of power, it requires a minimum of 24 hours of charging time to function normally.

Guidelines for Use

Follow these guidelines to maximize the life of the internal backup battery:

- Keep a charged battery pack in the terminal; the backup battery prematurely discharges if there is not at least a partially charged battery in the terminal.
- Keep the terminal connected to power when the terminal is not in use.

Managing Battery Power

Letting the backup battery become fully discharged causes the terminal to lose all data in RAM. Honeywell recommends, you keep a charged battery pack in the terminal at all times to help prevent data loss. The internal battery discharges prematurely if there is not at least a partially charged battery in the terminal. When you remove a battery pack, insert another charged battery pack in the terminal immediately.

Default Critical and Low Battery Points

When the terminal is running on battery power (as opposed to external power), warnings are displayed when the battery reaches critical and low battery points. The warning points are determined by the following registry entry:

[HKEY_LOCAL_MACHINE\ControlPanel\Power]

There are two DWORD values in this registry entry: **MedState** and **LowState**.

The default values for these entries are as follows:

MedState=25%

> This sets the Low Battery point to 25%. When the battery hits the percentage charge specified here, the user is notified.

LowState=10%

> This sets the Critical Battery point to 10%. When the battery hits the percentage charge specified here, the user is notified.

Note: Warnings do not appear when the terminal is on external power.

Setting Critical and Low Battery Points

Developers can reset the battery parameters in the registry from 0 (no warning) to 99 (would nearly always warn). You can review and set these battery points in the RegEdit Power Tool.

1. Tap > **Power Tools** > **RegEdit**.

2. Drill down to **HKEY_LOCAL_MACHINE** > **ControlPanel** > **Power**.

3. Tap the **Value Name** to change the Value Data.
   You can reset the Value Data from 0 (no warning) to 99 (would nearly always warn).

4. Tap **OK** to save changes.

For more information about the RegEdit Power Tool, refer to the Dolphin Power Tools User's Guide available for download at www.honeywellaidc.com.

Checking Battery Power

1. Tap > **Settings** > **System**

2. Tap **Power** to view the power status of the main battery and backup battery.

   Note: The Backup Battery gauge registers either 0% or 100%. The percentage is not an indication of the level of charge remaining on the backup battery. An installed and functional battery registers 100%. A total discharge or a battery error registers 0%.

   Or

   Tap **Battery** to view detailed information on the installed battery pack.

For additional information on Advanced Power Settings, see page 7-15.

For additional information on the Battery Log Configuration, see page 7-10.

System Resets

See Resetting the Terminal on page 2-11.

Hardware Maintenance

When needed, clean the image engine window and the LCD display with a clean, non-abrasive, lint-free cloth. The terminal can be cleaned with a damp cloth. For additional information on hardware maintenance specific to the Dolphin Healthcare Housings, see page 3-11.

Installing a SIM Card and/or Memory Card

SIM Card

Short for Subscriber Information Module, a SIM card stores the subscriber's personal information, GSM/GPRS radio settings, security keys, contacts, etc. SIM cards can be installed in compatible mobile devices, enabling you to switch devices without losing personal and setup information.

Before installing the SIM card:

- The service provider **must** activate the SIM card.
- The terminal **must** be powered down.

Note: If no SIM card is installed, you can still make emergency phone calls (e.g., 9-1-1).

Memory Card

You can expand the terminal's memory capacity by installing and industry-standard microSD or microSDHC memory card. Format all microSD/SDHC cards before initial use.

Note: Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards with Dolphin terminals for maximum performance and durability. Contact a Honeywell sales representative for additional information on qualified memory card options.

Installation

1. Press and hold the Power key ⏻ for approximately 5 seconds to put the terminal in Suspend Mode (see page 2-11).

2. Release the hand strap and slide battery latch away from the battery into the unlock position.

3. **Wait at least 3 seconds**. Slide the battery release button away from the stylus slot, then remove the battery.

4. Remove the screws and the protective shield covering the SIM/memory card socket.
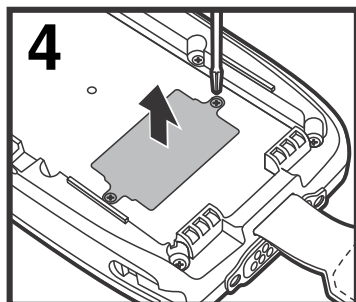
5. Unlock the SIM card latch by sliding the latch toward the stylus slot.

6. Lift the latch to reveal the SIM socket and the memory card latch.

   Note: If a SIM card is installed, remove the card to reveal the memory card latch.
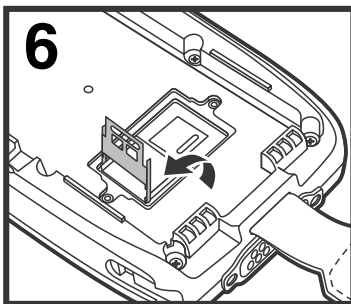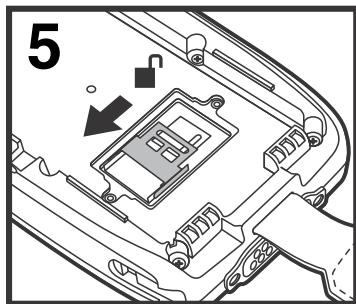
If you are not installing a memory card (i.e., microSD or MicroSDHD card), proceed to step 11.

7. Unlock the memory card latch by sliding the latch toward the top of the terminal.

8. Lift the latch to expose the memory socket.

9. Insert the MicroSD or MicroSDHC card.
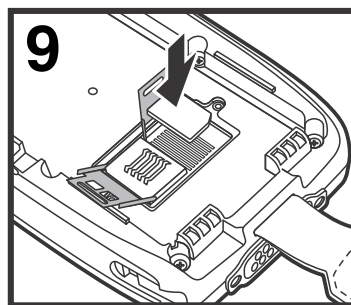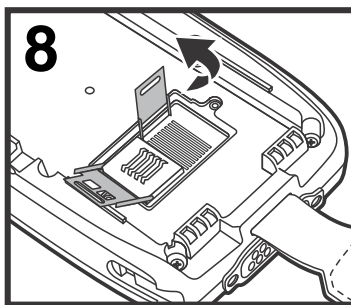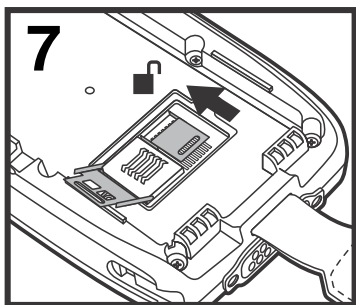
10. Close and lock the memory card latch.
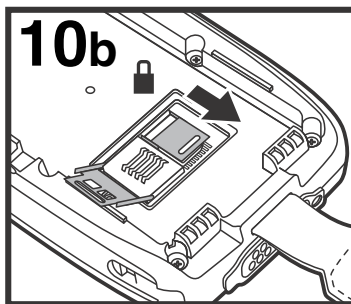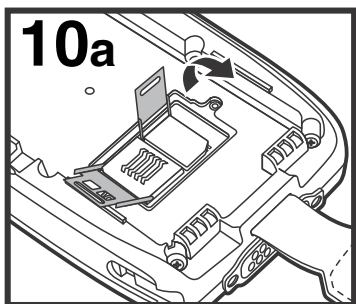
11. Insert the SIM card. Align the chamfered corner of the card with the chamfered corner of the socket.

12. Close and lock the SIM card latch.
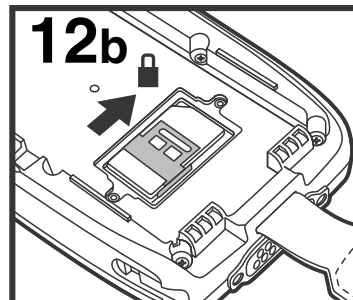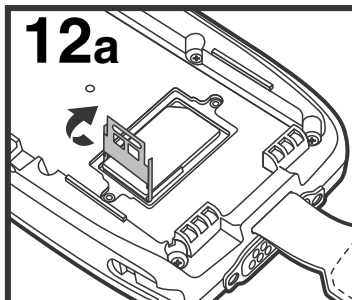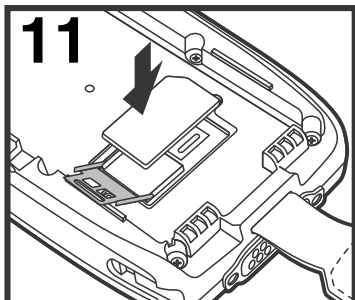
13. Reinstall the shield and screws to protect the sockets.
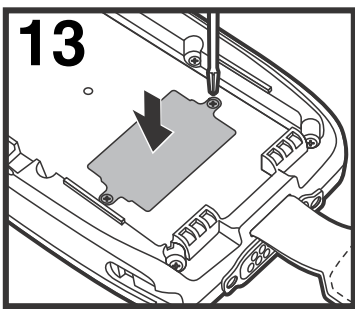
14. Install and lock the battery. The terminal automatically starts the power up sequence.

    Note: The terminal does not power ON unless the battery lock is engaged.

4

Using the Scan Image Engine

Overview

The Dolphin terminal houses a compact image engine that instantly reads popular 1D and 2D bar codes and supports omni-directional aiming and decoding for greater flexibility in real-world settings. The image engine can also capture black and white digital images, such as signatures and pictures of damaged inventory.

With the latest CMOS-based technology, the engine works like a digital camera and enables black and white digital image capture, signature capture, and reading of OCR characters.

Laser Safety

See Laser Safety on page 1-1.

N5603 Beam Divergence Angle

Engines	Horizontal Beam Divergence Angle (degrees)	Vertical Beam Divergence Angle (degrees)
N5603SR/HD	18.1	14.3
N5603ER	13.1	9.9

LED Safety

See LED Safety on page 1-2.

Image Engine Specifications

Engines	1D	2D	Image Capture	Aiming Pattern	Omni-Directional Aiming
N5603SR/ER/HD	Y	Y	Y	N5603 Red High-Vis Aiming Pattern (page 4-5)	Y
N5600SR/ER/HD	Y	Y	Y	N5600 Green Aiming Beam (page 4-5)	Y

Depth of Field

The depth of field measurements used the following parameters:

- Distances are measured from the front of the engine.
- +23°C (+73°F), 0 lux
- Photographic quality codes

Focus	N5603/N5600 High Density (HD)			N5603/N5600 Standard Range (SR)			N5603/N5600 Extended Range (ER)		
Symbology	Distance (in/cm)		Delta (in/cm)	Distance (in/cm)		Delta (in/cm)	Distance (in/cm)		Delta (in/cm)
	Near	Far		Near	Far		Near	Far	
3 mil C39/128	2.0 (5.1)	3.4 (8.6)	1.4 (3.6)	-	-	-	-	-	-
5 mil C39/128	1.4 (3.6)	4.8 (12.2)	3.4 (8.6)	2.7 (6.9)	6.3 (16.0)	3.6 (9.1)	5.4 (13.7)	9.0 (22.9)	3.6 (9.1)
7.5 mil C39/128	1.4 (3.6)	5.6 (14.2)	4.2 (10.7)	2.5 (6.4)	9.2 (23.4)	6.7 (17)	4.2 (10.7)	12.6 (32.0)	8.4 (21.3)
10 mil C39/128	1.4 (3.6)	5.5 (14.0)	4.1 (10.4)	1.6 (4.1)	13.2 (33.5)	11.6 (29.5)	3.1 (7.9)	17.2 (43.7)	14.1 (35.8)
15 mil C39/128	1.3 (3.3)	7.8 (19.8)	6.5 (16.5)	1.8 (4.6)	19.0 (48.3)	17.2 (43.7)	2.4 (6.1)	20.9 (53.1)	18.5 (47.0)
20 mil C39/128	2.3 (5.8)	9.2 (23.4)	6.9 (17.5)	2.2 (5.6)	20.1 (51.1)	17.9 (45.5)	2.9 (7.4)	24.0 (61.0)	21.1 (53.6)
100% UPC	1.9 (4.8)	7.1 (18)	5.2 (13.2)	1.8 (4.6)	16.5 (41.9)	14.7 (37.3)	2.7 (6.9)	19 (43.3)	16.3 (41.4)
5 mil PDF417	1.4 (3.6)	4.8 (12.2)	3.4 (8.6)	2.6 (6.6)	5.2 (13.2)	2.6 (6.6)	6.1 (15.5)	7.4 (18.8)	1.3 (3.3)
6.7 mil PDF417	1.4 (3.6)	4.8 (12.2)	3.4 (8.6)	2.0 (5.1)	6.5 (16.5)	4.5 (11.4)	4.7 (11.9)	9.8 (24.9)	5.1 (13.0)
10 mil PDF417	1.7 (4.3)	6.2 (15.7)	4.5 (11.4)	1.5 (3.8)	11.0 (27.9)	9.5 (24.1)	2.4 (6.1)	15.0 (38.1)	12.6 (32.0)
5 mil MicroPDF	1.8 (4.6)	3.4 (8.6)	1.6 (4.1)	-	-	-	-	-	-
5 mil Data Matrix	1.9 (4.8)	3.1 (7.9)	1.2 (3.0)	-	-	-	-	-	-
10 mil Data Matrix/Aztec	1.7 (4.3)	5.3 (13.5)	3.6 (9.1)	2.2 (5.6)	7.9 (20.1)	5.7 (14.5)	5.1 (13.0)	10.5 (26.7)	5.4 (13.7)
20 mil Data Matrix	2.1 (5.3)	7.8 (19.8)	5.7 (14.5)	2.0 (5.1)	15.3 (38.9)	13.3 (33.8)	3.6 (9.1)	18 (45.7)	14.4 (36.6)
10 mil QR	3.3 (8.4)	5.0 (12.7)	1.7 (4.3)	2.2 (5.6)	7.1 (18.0)	4.9 (12.4)	4.3 (10.9)	10.6 (26.9)	6.5 (16.5)
20 mil QR	2.2 (5.6)	7.9 (20.1)	5.7 (14.5)	2.2 (5.6)	15.5 (39.4)	13.3 (33.8)	2.4 (6.1)	19.6 (49.8)	17.6 (44.7)
32 mil Maxicode	2.4 (6.1)	8.6 (21.8)	6.2 (15.7)	2.5 (6.4)	17.0 (43.2)	14.5 (36.8)	3.9 (9.9)	23.2 (58.9)	19.5 (49.5)

Supported Bar Code Symbologies

Symbology Type	Symbology Name	
1D Symbologies	Codabar Codablock F Code 3 of 9 Code 11 Code 32 Pharmaceutical (PARAF) Code 93 Code 128 EAN with Add-On EAN with Extended Coupon Code EAN-8 EAN-13 GS1-128 GS1 Databar Interleaved 2 or 5	ISBT 128 Matrix 2 of 5 MSI Plessey Straight 2 of 5 IATA Straight 2 of 5 Industrial Telepen Trioptic Code UPC with Add On UPC-A UPC-E
2D Symbologies	Aztec Codablock A Codablock F Data Matrix	GS1 Databar MaxiCode Micro PDF PDF417 QR Code
Composite Codes	UPC/EAN UCC/EAN GS1 Databar	
OCR	OCR US Money Font MICR (E 13 B) and SEMI Font OCR-A OCR-B	
Postal Codes	Postnet and most international 4-state codes Australian Post British Post Canadian Post China Post Japanese Post KIX (Netherlands) Post Korea Post Planet Code	

Decoding

The terminal supports two types of image decoding for use in various bar code reading and imaging applications: full-area imaging and Advanced Linear Decoding (ALD).

Full-Area Imaging

Full-area imaging provides omni-directional reading of linear and non-linear 1D and 2D bar codes, OCR, signature capture, and picture taking. When reading all bar code types using full-area imaging, a positive read can be obtained from many positions; see Aiming Beam Options on page 4-5. To achieve the best read, the aiming beam should be centered horizontally across the bar code.

ALD

ALD provides fast reading of linear and stacked linear bar codes. To achieve a positive read when reading linear 1D and PDF417 bar codes, the aiming beam should be centered horizontally across the bar code. When ALD is enabled, the reader does not read matrix or postal codes.

To Decode a Bar Code

The aiming beam should be oriented in line with the bar code to achieve optimal decoding. A range of 4-10 inches (10-25 cm) from the bar code is recommended.

1. Tap ⊞ > **Demos** 📁 > **Scan Demo** ▯▮▯▯ .

2. Point the Dolphin terminal at the bar code.

3. Press and hold the SCAN key. The aiming beam or pattern appears and the general notification LED illuminates red.
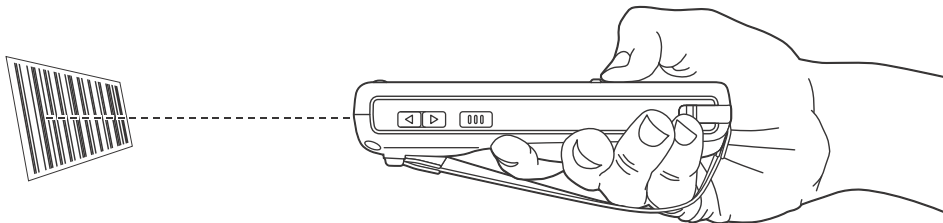
4. Center the aiming beam over the bar code; see Aiming Beam Options on page 4-5.

   Note: For optimum performance, avoid reflections by scanning the bar code at a slight angle.

5. When the bar code is successfully decoded, the general notification LED flashes green and the terminal beeps.

6. The bar code information is entered into the application in use.

Aiming Beam Options

The aiming beams are smaller when the terminal is held closer to the code and larger when it is farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit whereas symbologies with larger bars or elements (mil size) should be read farther from the unit.

N5603 Red High-Vis Aiming Pattern

If your Dolphin terminal is configured with a N5603 imager, high-vis aimers frame the bar code for more intuitive aiming. See Laser Safety on page 1-1.
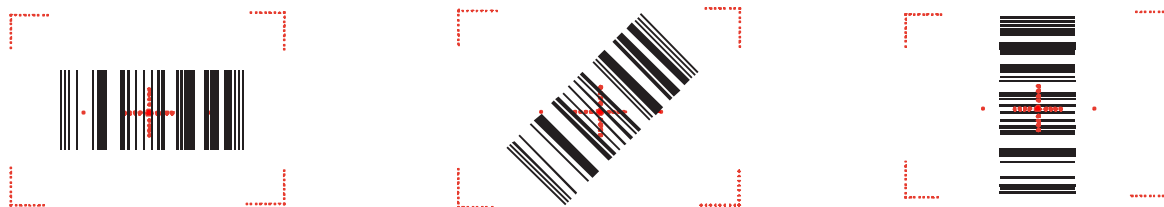
N5600 Green Aiming Beam

Linear Bar Code

2D Matrix Symbol

Capturing Images

The image-capture process is an intuitive, split-second operation for experienced users. By following the basic guidelines, new users can easily develop their own technique and, with practice, quickly learn to adapt it to different application environments.

Image Preview

When the imaging process is initiated, the touch screen displays a preview of the object. This is a live video image of what the imager is currently viewing. The live video image has a slightly degraded appearance compared to the captured image. This is normal.

Scan Key

On all 7800 terminals, the SCAN key captures images.

File Formats

File formats supported for image storage include Bitmap (BMP), JPEG (JPG) and Portable Network Graphics (PNG). The default file format for images is a grayscale JPG.

Compression

Digital images have a maximum image size of 640 x 480 pixels and may have up to a 256 grayscale image definition.

The image quality and related file size are determined by the data compression method used by the software application used to take images. The average size of the image file is approximately 4–8K. However, the size of the image depends on the content of the image - the more complex the content, the larger the file size.

Taking an Image

The following steps are basic guidelines for taking images:

1. Tap > **Demos** > **Imaging Demo** .

2. Point the Dolphin terminal at the object.

3. To preview the image, press and hold the SCAN key. The general notification LED illuminates red.

4. Adjust the terminal's position until the object appears on the touch screen the way you want it to appear in the image.

5. Hold the terminal still and release the SCAN key. The LED flashes green, the screen briefly flashes, and then the captured image appears on the screen.

6. Tap file Save or Save As.

    *Note: Unless otherwise specified by the application in use, the image is saved to the **\My Device\My Documents** folder.*

Enabling the Aimer

You can enable the aiming pattern for imaging in the Imaging Demo. For details about the aimer, see Aiming Beam Options on page 4-5.

1. Tap ⊞ > **Demos** > **Imaging Demo** > **Setup** menu > **Aimer**.
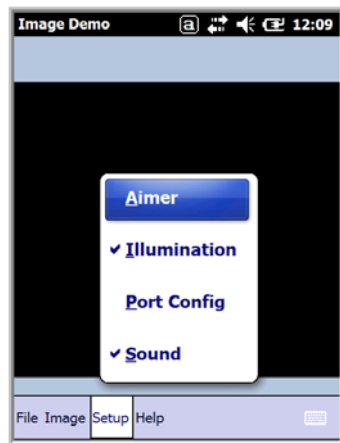
2. The aiming pattern is now enabled for imaging.

Uploading Images

Image files can be uploaded to a host workstation using Microsoft ActiveSync or Windows Mobile Device Center and a Dolphin communication peripheral. For additional information see Connecting and Synchronizing the Terminal and Workstation on page 8-6.

5

Using the Color Camera

Overview

Dolphin 7800 terminals equipped with a 3.0-Megapixels Resolution color camera with Automated Camera Control (ACC), and an Application Programming Interface (API) provide easy integration of color picture and video capture into business applications. The camera lens and camera flash are located on the back panel of the terminal.

Taking a picture using the Camera Demo tool

1. Tap ⊞ > **Demos** 📁 > **Camera Demo** 📷 .

2. Adjust the camera settings using the icon menu at the top of the display screen.

3. Point the terminal's camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.

4. Center the object in the touch screen display.

5. Press the **ENT** key or tap **Snap** on the touch screen. The general notification LED illuminates red during picture capture.
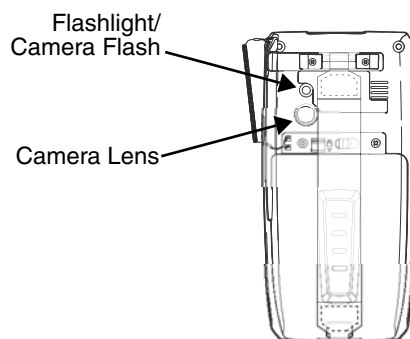
Note: Tap the green arrow ◀ *to review or edit your pictures.*

Tap the green box ☐ *to exit the picture review/edit screen.*

Options

Tap **Options** > **Camera.**

The Camera Options menu appears. There are five tabs of configurable options accessible from the Camera Options menu.

Profile Tab
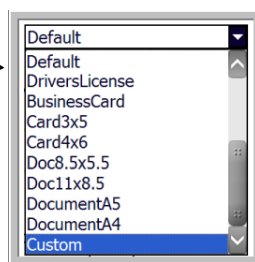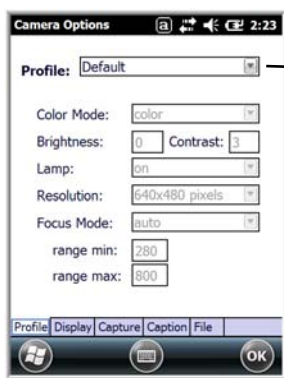
The profile tab allows you to customize your camera settings, or chose from several predefined profiles designed to provide the best picture quality for common tasks.

Display Tab

Capture Tab
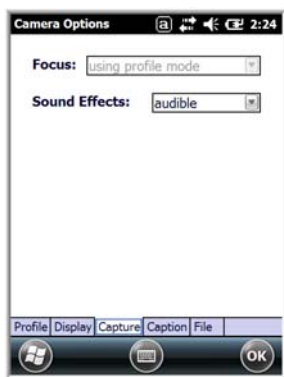
Caption Tab

File Tab

Taking a picture using the Windows Embedded Handheld 6.5 Camera tool

1. Tap > **Pictures & Videos > Camera**

2. Point the terminal's camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.

3. Center the object in the touch screen display.

4. Press the ENT key.

5. The touch screen displays the captured photo.

6. Tap OK on the Tile Bar to return to the active viewfinder screen.

Menu

Tap **Menu** on the Tile Bar at the bottom of the touch screen to adjust the camera settings, switch to video mode, and access additional camera options.

Item	Descriptions
Video	Activate Video Mode
Mode	Set Mode (i.e., Normal, Burst, or Timer)
Resolution	Set Picture Resolution (i.e., QVGA, VGA, SVGA, XGA, UXGA, or QXGA)
Zoom	Set Zoom (i.e., x1, x2, or x3)
Flash	Set Camera Flash On or Camera Flash Off
Focus	Set Focus Off, Focus On, Focus on Trigger, or Fixed-Focus
Brightness	Set the brightness setting from +2.0 EV to -2.0 EV in .5 EV increments
Full Screen	Switch to full screen mode
Options	Set Camera Options, Video Options, Slide Show Options or General Options

Options

Tap **Menu** > **Options**. The Options menu contains four screens:

General Tab   **Slide Show Tab**   **Camera Tab**   **Video Tab**
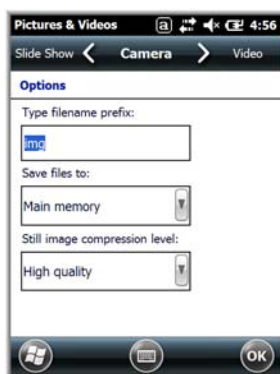
Recording Video

1. Tap > **Pictures & Videos > Camera > Menu > Video**

2. Point the terminal's camera lens at the object you want to capture.

3. Press the **ENT** key to start recording.

4. Tap **Stop** on the touch screen or press **ENT** to stop recording.

Uploading Pictures and Videos

Picture and Video files can be uploaded to a host workstation using Microsoft ActiveSync or Windows Mobile Device Center and a Dolphin communication peripheral. For additional information see

6

Using the Keyboards

Available Keyboards

Note: Contact a sales representative for information on additional keyboard options.

30-Key Numeric Keyboard
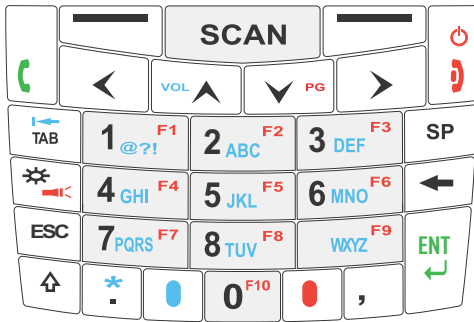
46-Key QWERTY Keyboard
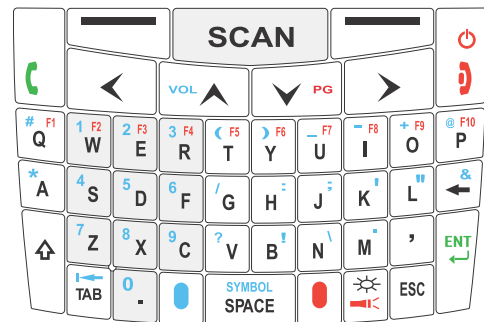
30-Key Numeric (Calculator) Keyboard
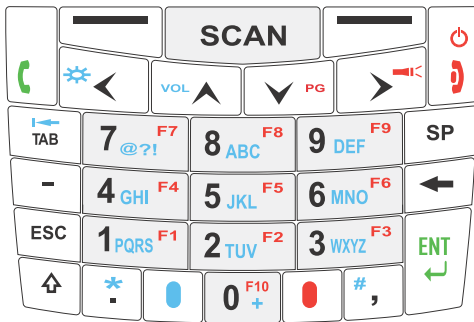
46-Key AZERTY Keyboard
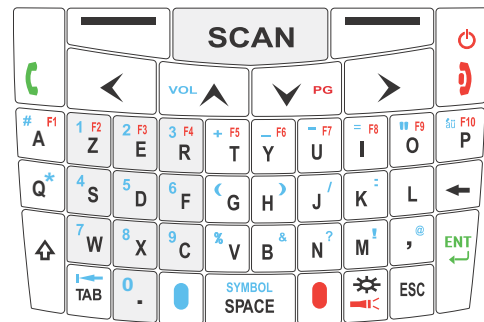
46-Key QWERTZ Keyboard
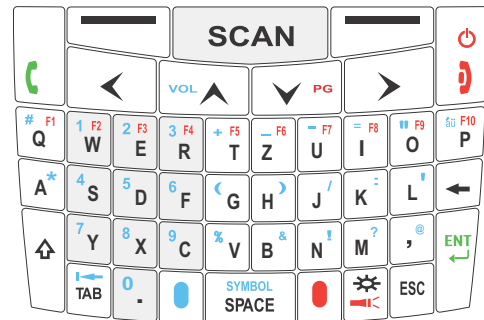
All Keyboards Contain the Following:

- Backlit for easy viewing in various lighting conditions.
- Centrally located Scan key for both right- and left-hand operation.
- Color-coding so you can clearly see the most common keyboard combinations.
- Function, navigation, and modifier keys.

Keyboard Combinations

Common Buttons

Using the Function Keys

Name	Key Symbol	Function
Backlight	☼ or 🔵 & ☼ Blue	Turns the keyboard backlight on or off. *Note: On terminals with the 30-Key Numeric (Calculator) Keyboard the backlight feature requires the blue modifier key.*
Flashlight	🔴 & ◀ Red	Turns the flashlight on or off. The flashlight is located on the back panel of the terminal.
Backspace	←	Moves the cursor back one space each time the key is pressed. If you are typing text, it deletes the previous character each time it is pressed.
Enter	ENT ↵	Confirms data entry.
Escape	ESC	Cancels the current action.
Power/End Call Key	⏻ 📞	The Power key, located in the upper right corner of the keypad, puts the terminal in Suspend Mode or wakes the terminal from Suspend Mode, see Suspend Mode on page 2-11. This key is also used to end/disconnect a phone calls.
SCAN Key	SCAN	Activates the scan and wakes the terminal from Suspend Mode. The key location allows convenient one-handed image-taking and/or bar code decoding.
Space	SYMBOL SPACE or SP	Moves the cursor one space.
Tab	⇤ TAB	Moves the cursor to the next tab stop or the next control (on a form).

Using the Modifier Keys

Name	Key	Function
Blue & Red	Blue Red	The blue and red keys are used in combination with other keys to type special characters and perform system functions. Each keyboard is color-coded to indicate the character typed or function performed when specific keys are pressed immediately after the blue or red modifier key. *Normal* Press the blue or red key once to modify only the next key pressed. *Locked* Press the blue or red key twice to toggle the modifier lock on or off. If a modifier key is locked on, the next keys pressed are modified until the lock is turned off. This prevents having to press the modifier key each time a key is pressed. *Note: Press the locked modifier key once to temporarily unlock the modifier key for a single key stroke.*
Shift	⇧	The shift key modifies only the next key pressed; it must be pressed before each key you wish to modify. Shift toggles the keyboard between uppercase alphabet mode and lowercase alphabet mode. Press the shift key twice to toggle Caps Lock ON or OFF.

Using the Navigation Keys

Located in the center of each keyboard for easy access with either hand, the navigation keys navigate the cursor through application screens.

Key	Function
VOL ▲	Moves the cursor up one row or line.
▼ PG	Moves the cursor down one row or line.
Blue & VOL ▲	Raises the volume.
Blue & ▼ PG	Lowers the volume.
Red & ▼ PG	Moves the cursor down one page.

Key	Function
Red ⬤ & **VOL** ⬆	Moves the cursor up one page.
❯	Moves the cursor one character to the right.
❮	Moves the cursor one character to the left.

Note: Additional functionality varies according to the application in use.

30-Key Numeric Keyboard

Up Navigation Key, Volume Up, Page Up
Down Navigation Key, Volume Down, Page Down
Left Soft Key
SCAN Key
Right Soft Key
Right Navigation Key
Left Navigation Key
Power Key / END Key
SEND key
Space Key
Tab Key
Backlight / Flashlight Key
Backspace Key
Escape Key
Enter Key
Shift Key
Blue Key
Red Key
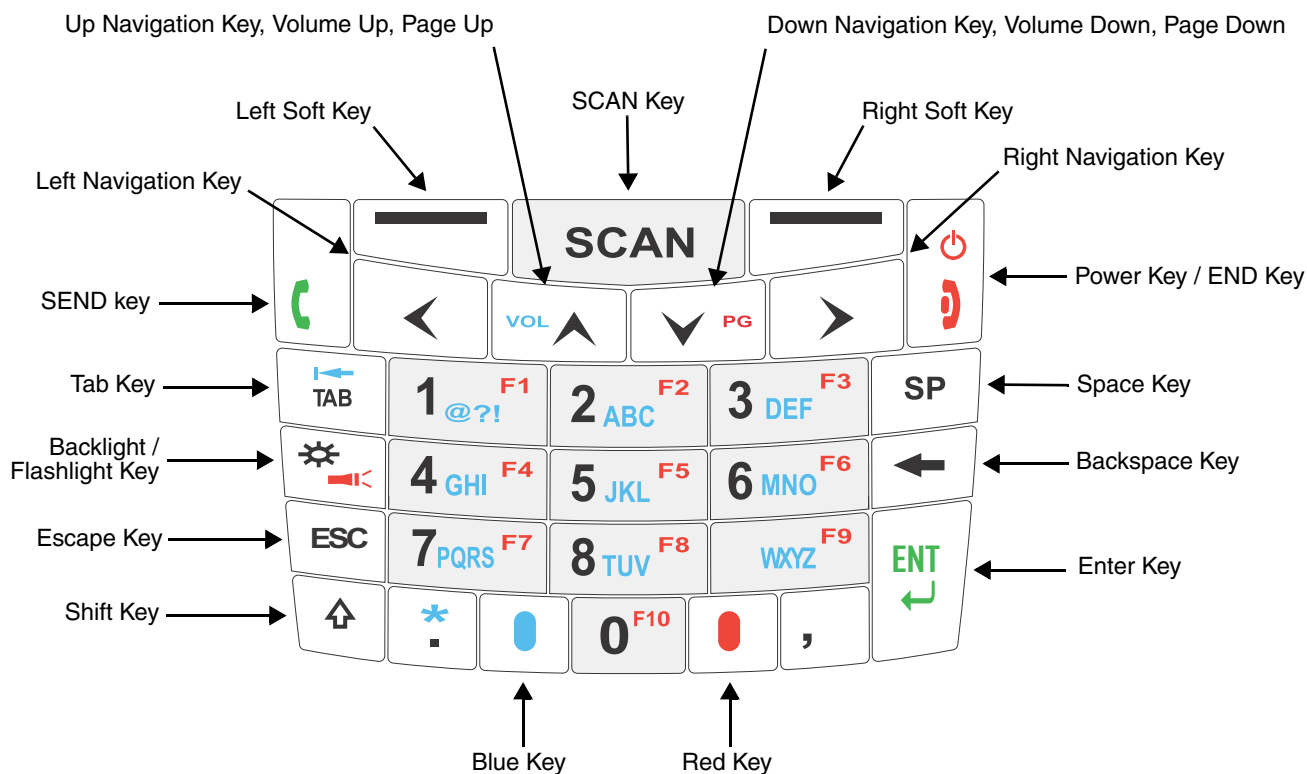
30-Key Numeric Keyboard Combinations

Key	Normal	Blue + Normal	Blue + Normal + Shift	Red + Normal
Left Soft Key	Left Soft Key performs the left function.			
SCAN	SCAN			

Key	Normal	Blue + Normal	Blue + Normal + Shift	Red + Normal
Right Soft Key	Right Soft Key performs right function.			
SEND	SEND	Cold Boot	Cold Boot	SEND
Left Navigation	Left			
Up Navigation	Volume Up	Volume Up	Volume Up	Page Up
Down Navigation	Volume Down	Volume Down	Volume Down	Page Down
Right Navigation	Right			
Power/END	Power On/Off or END Call	Warm Boot	Warm Boot	Power On/Off or END Call
TAB	TAB	back TAB	TAB	TAB
1	1	@ ? !	@ or ? or !	F1
2	2	abc	ABC	F2
3	3	def	DEF	F3
Space	Space			
Backlight	Backlight	Backlight	Backlight	flashlight
4	4	ghi	GHI	F4
5	5	jkl	JKL	F5
6	6	mno	MNO	F6
Backspace	backspace			
ESC	Escape			
7	7	pqrs	PQRS	F7
8	8	tuv	TUV	F8
9	9	wxyz	WXYZ	F9
ENTER	Enter			
Shift	Shift			

Key	Normal	Blue + Normal	Blue + Normal + Shift	Red + Normal
Period	period	asterisk	asterisk	period
Blue	Blue			
0	0	0	0	F10
Red	Red			

30-Key Numeric (Calculator) Keyboard

Up Navigation Key, Volume Up, Page Up

Down Navigation Key, Volume Down, Page Down

Left Soft Key

SCAN key

Right Soft Key

Left Navigation key, Backlight

Right Navigation key, Flashlight

Send key

Power key, End Key

Tab key

Space key

Backspace, Delete key

Escape key

Enter key

Shift key

Blue key

Red key
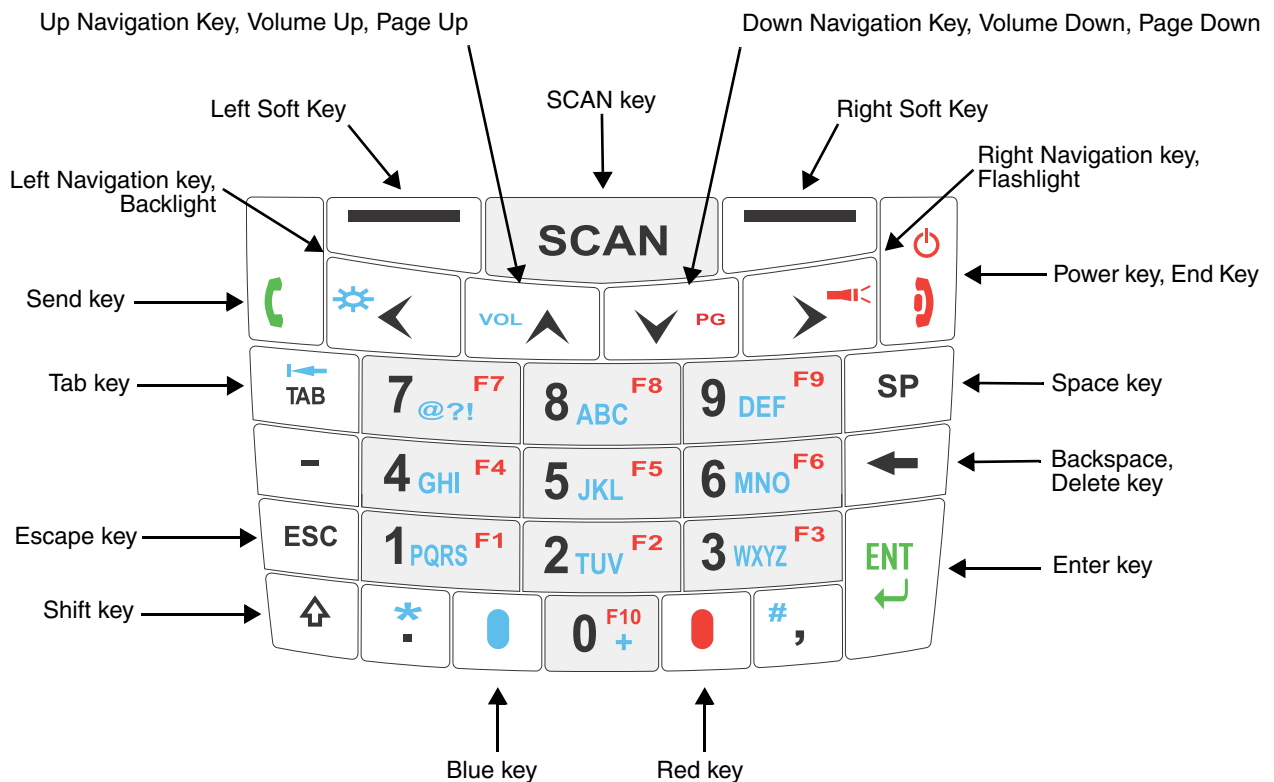
30-Key Numeric (Calculator) Keyboard Combinations

Key	Normal	Blue + Normal	Blue + Normal + Shift	Red + Normal
Left Soft Key	Left Soft Key			
SCAN	SCAN			
Right Soft Key	Right Soft Key			

Key	Normal	Blue + Normal	Blue + Normal + Shift	Red + Normal
SEND	SEND	Cold Boot	Cold Boot	SEND
Left	Left	Backlight	Left	Left
Up	Volume Up	Volume Up	Volume Up	Page Up
Down	Volume Down	Volume Down	Volume Down	Page Down
Right	Right	Right	Right	Flashlight
POWER\END	Power\End	Warm Boot	Warm Boot	Power\End
TAB	TAB	back TAB	TAB	TAB
7	7	@ or ? or !	@ or ? or !	F7
8	8	abc	ABC	F8
9	9	def	DEF	F9
Space	Space			
Dash/Minus	-	-	-	-
4	4	ghi	GHI	F4
5	5	jkl	JKL	F5
6	6	mno	MNO	F6
Backspace	backspace			
ESC	Escape			
1	1	pqrs	PQRS	F1
2	2	tuv	TUV	F2
3	3	wxyz	WXYZ	F3
ENTER	Enter			
Shift	Shift			
Period	period	asterisk	asterisk	period
Blue	Blue			

Key	Normal	Blue + Normal	Blue + Normal + Shift	Red + Normal
0	0	plus +	0	F10
Red	Red			

46-Key QWERTY Keyboard

Up Navigation Key, Volume Up, Page Up

Down Navigation Key, Volume Down, Page Down

Left Soft Key

SCAN key

Right Soft Key

Right Navigation key

Left Navigation key

Send key

Power key, End Key

Backspace, Delete key

Shift key

Enter key

Tab key

Blue key

Red key

Escape key

Space\Symbol key

Backlight\Flashlight key
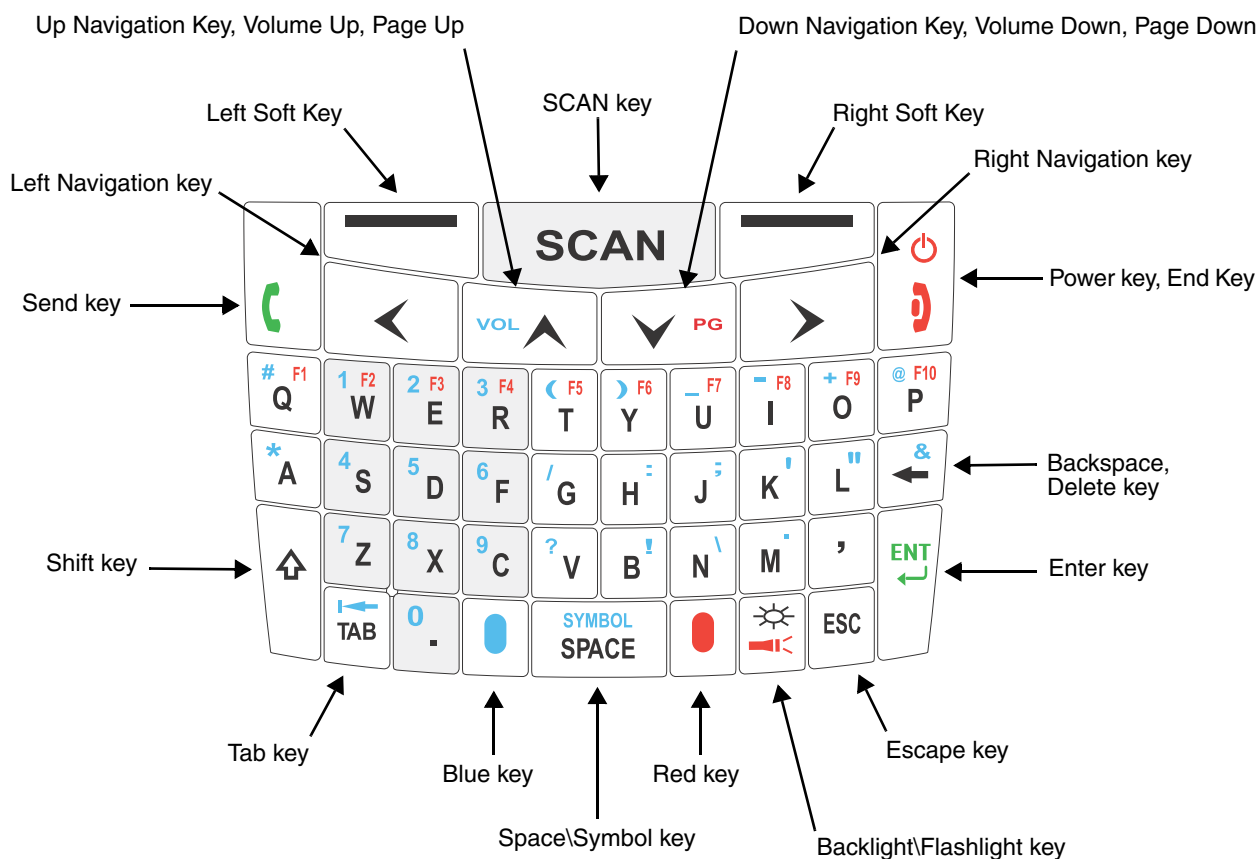
46-Key QWERTY Keyboard Combinations

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
Send	Send	Send	Cold Boot	Send
Left Soft Key	Left Soft Key			
SCAN	Scan			

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
Right Soft Key	Right Soft Key			
Power/End	Power/End	Power/End	Warm Boot	Power/End
Left Navigation Key	Left			
Up Navigation	Up	Up	Volume Up	Page Up
Down Navigation	Down	Down	Volume Down	Page Down
Right Navigation	Right			
Q	q	Q	# (pound/group)	F1
W	w	**W**	1	F2
E	e	**E**	2	F3
R	r	**R**	3	F4
T	t	**T**	(	F5
Y	y	**Y**	)	F6
U	u	**U**	_ (underscore)	F7
I	i	**I**	- (minus)	F8
O	o	**O**	+ (plus)	F9
P	p	**P**	@	F10
A	a	**A**	* (asterisk)	F11
S	s	**S**	4	F12
D	d	**D**	5	F13
F	f	**F**	6	F14
G	g	**G**	/	F15
H	h	**H**	: (colon)	F16
J	j	**J**	; (semi-colon)	F17

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
K	k	**K**	' (single quote)	F18
L	l	**L**	" (double quote)	F19
Backspace	Backspace	Backspace	& (ampersand)	
Shift	Shift			
Z	z	**Z**	7	F20
X	x	**X**	8	F21
C	c	**C**	9	F22
V	v	**V**	? (question mark)	F23
B	b	**B**	! (exclamation point)	F24
N	n	**N**	\ (back slash)	F25
M	m	**M**	. (period)	F26
Comma	, (comma)	<	, (comma)	, (comma)
ENT	Enter			
TAB	Tab	Back Tab	Back Tab	Tab
Period	. (period)	>	0	. (period)
Blue	Blue			
SYMBOL/ SPACE	Space	Space	SYMBOL	Space
Red	Red			
Backlight	Backlight	Backlight	Backlight	Flashlight
ESC	Escape			

46-Key AZERTY Keyboard

Up Navigation Key, Volume Up, Page Up

Down Navigation Key, Volume Down, Page Down

Left Soft Key

SCAN key

Right Soft Key

Left Navigation key

Right Navigation key

Send key

Power key, End Key

Backspace, Delete key

Shift key

Enter key

Tab key

Blue key

Red key

Escape key

Space\Symbol key

Backlight\Flashlight key
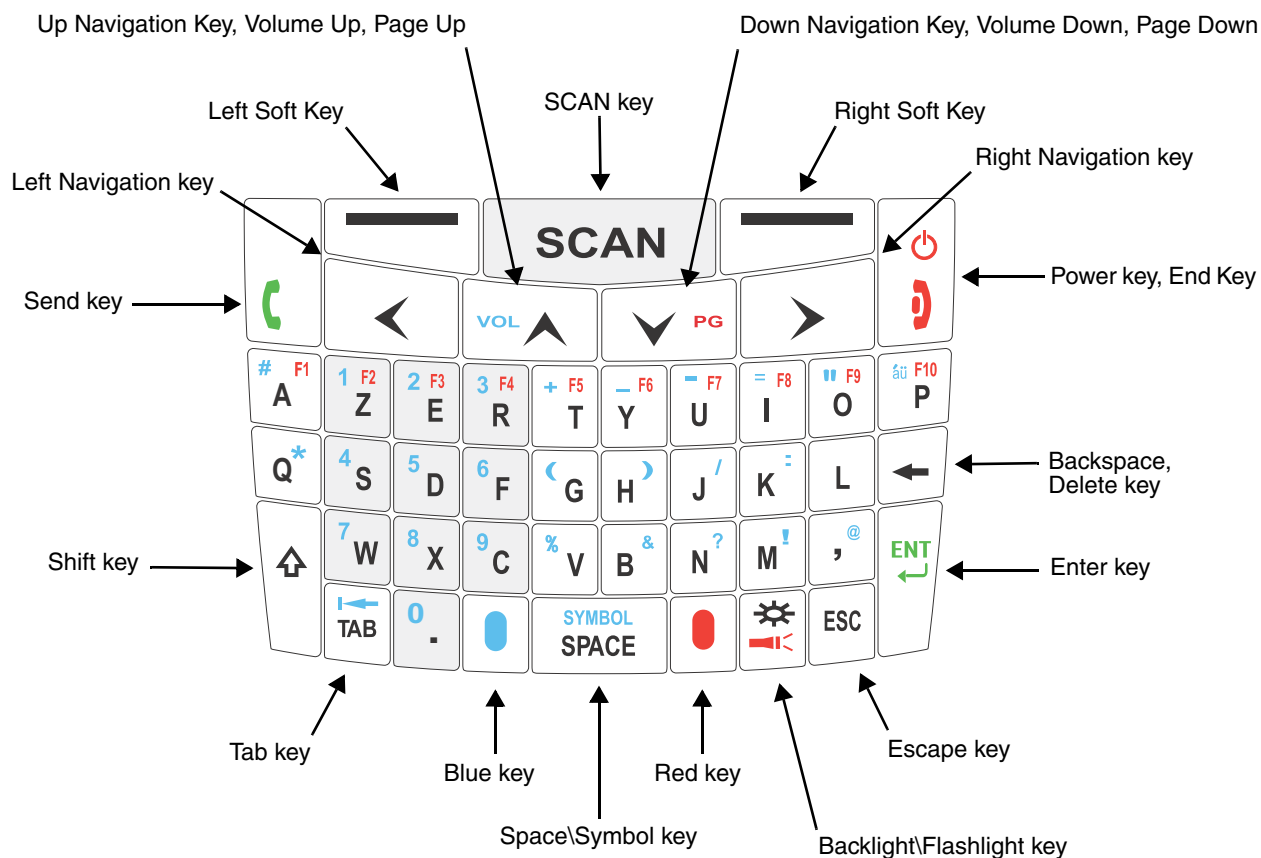
46-Key AZERTY Keyboard Combinations

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
Send	Send	Send	Cold Boot	Send
Left Soft Key	Left Soft Key			
SCAN	Scan			
Right Soft Key	Right Soft Key			
Power/End	Power/End	Power/End	Warm Boot	Power/End

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
Left Navigation Key	Left			
Up Navigation	Up	Up	Volume Up	Page Up
Down Navigation	Down	Down	Volume Down	Page Down
Right Navigation	Right			
A	a	A	# (number sign)	F1
Z	z	**Z**	1	F2
E	e	**E**	2	F3
R	r	**R**	3	F4
T	t	**T**	+ (plus)	F5
Y	y	**Y**	_ (underscore)	F6
U	u	**U**	- (minus)	F7
I	i	**I**	= (equal)	F8
O	o	**O**	" (double quote)	F9
P	p	**P**	áü	F10
Q	q	**Q**	* (asterik)	F11
S	s	**S**	4	F12
D	d	**D**	5	F13
F	f	**F**	6	F14
G	g	**G**	(	F15
H	h	**H**	)	F16
J	j	**J**	/ (forward slash)	F17
K	k	**K**	: (colon)	F18
L	l	**L**		F19

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
Backspace	Backspace	Backspace		
Shift	Shift			
W	w	**W**	7	F20
X	x	**X**	8	F21
C	c	**C**	9	F22
V	v	**V**	% (percent)	F23
B	b	**B**	& (ampersand)	F24
N	n	**N**	? (question mark)	F25
M	m	**M**	! (exclamation mark)	F26
Comma	, (comma)	<	@	, (comma)
ENT	Enter			
TAB	Tab	Back Tab	Back Tab	Tab
Period	. (period)	>	0	. (period)
Blue	Blue			
SYMBOL/ SPACE	Space	Space	SYMBOL	Space
Red	Red			
Backlight	Backlight	Backlight	Backlight	Flashlight
ESC	Escape			

46-Key QWERTZ Keyboard

Up Navigation Key, Volume Up, Page Up

Down Navigation Key, Volume Down, Page Down

Left Soft Key

SCAN key

Right Soft Key

Right Navigation key

Left Navigation key

Send key

Power key, End Key

Backspace, Delete key

Shift key

Enter key

Tab key

Blue key

Red key

Escape key

Space\Symbol key

Backlight\Flashlight key
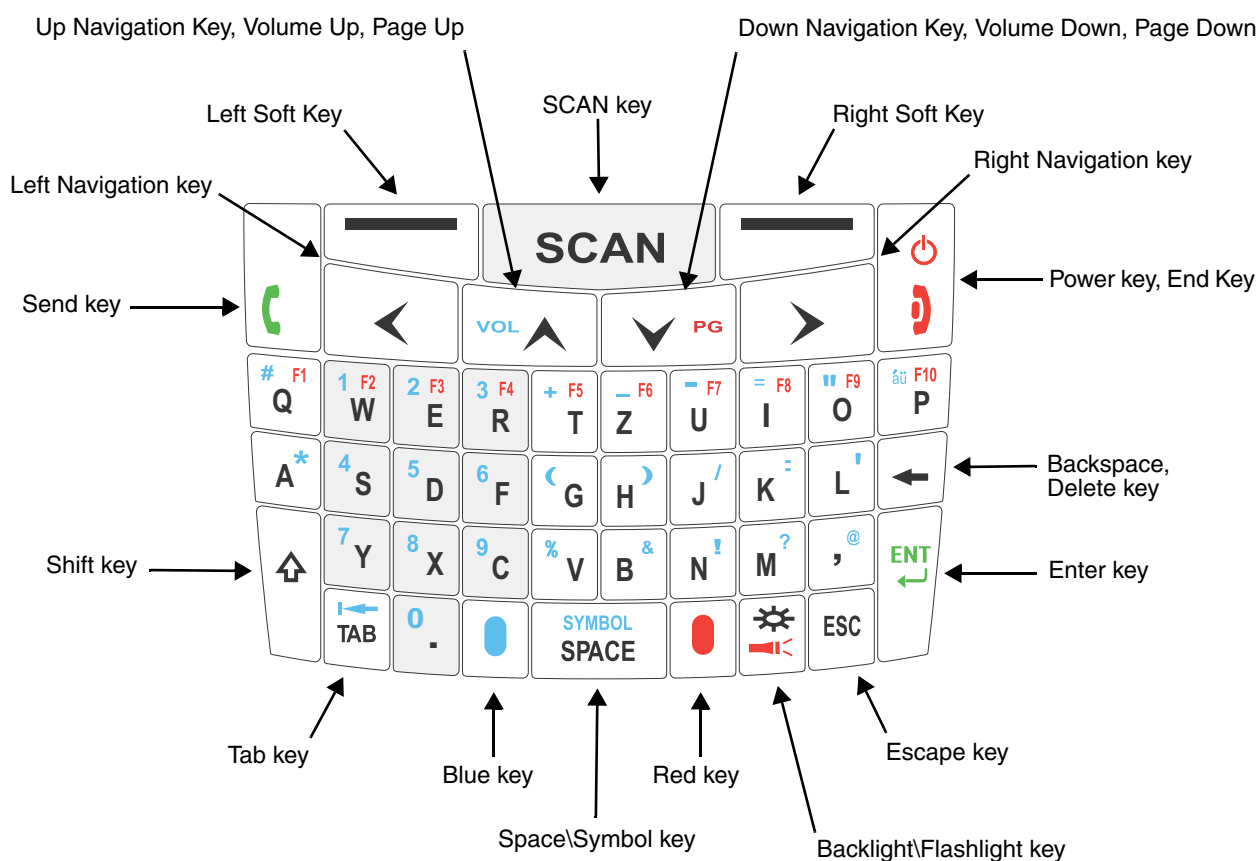
46-Key QWERTZ Keyboard Combinations

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
Send	Send	Send	Cold Boot	Send
Left Soft Key	Left Soft Key			
SCAN	Scan			
Right Soft Key	Right Soft Key			
Power/End	Power/End	Power/End	Warm Boot	Power/End
Left Navigation	Left			
Up Navigation	Up	Up	Volume Up	Page Up

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
Down Navigation	Down	Down	Volume Down	Page Down
Right Navigation	Right			
Q	q	Q	# (number sign)	F1
W	w	**W**	1	F2
E	e	**E**	2	F3
R	r	**R**	3	F4
T	t	**T**	+ (plus)	F5
Y	y	**Y**	_ (underscore)	F6
U	u	**U**	- (minus)	F7
I	i	**I**	= (equal)	F8
O	o	**O**	" (double quote)	F9
P	p	**P**	áU	F10
A	a	**A**	* (asterisk)	F11
S	s	**S**	4	F12
D	d	**D**	5	F13
F	f	**F**	6	F14
G	g	**G**	(	F15
H	h	**H**	)	F16
J	j	**J**	/ (forward slash)	F17
K	k	**K**	: (colon)	F18
L	l	**L**	' (single quote)	F19
Backspace	Backspace	Backspace		
Shift	Shift			
Y	y	**Y**	7	F20

Key	Normal	Shift + Normal	Blue + Normal	Red + Normal
X	x	**X**	8	F21
C	c	**C**	9	F22
V	v	**V**	% (percent)	F23
B	b	**B**	& (ampersand)	F24
N	n	**N**	! (exclamation mark)	F25
M	m	**M**	? (question mark)	F26
Comma	, (comma)	<	@	, (comma)
ENT	Enter			
TAB	Tab	Back Tab	Back Tab	Tab
Period	. (period)	>	0	. (period)
Blue	Blue			
SYMBOL/ SPACE	Space	Space	SYMBOL	Space
Red	Red			
Backlight/ Flashlight	Backlight	Backlight	Backlight	Flashlight
ESC	Escape			

7

System Settings

Overview

Customized settings are available on the System Settings menu. Tap [icon] > **Settings** [icon] and the settings screen opens.

Icon		Description
Bluetooth	[icon]	Configures the Bluetooth radio. See Working with the Bluetooth Radio on page 10-1.
Clock & Alarms	[icon]	Set the system clock, date, time and schedule alarms. See Clock & Alarms on page 7-2.
Lock	[icon]	Password protect the terminal to limit access to the terminal.
Sounds & Notifications	[icon]	Set the sound volume, enable or disable sounds for specific actions, set sound parameters for system notifications and enable or disable vibrator notification.
Home	[icon]	Customize the look and the information displayed on the Home screen.
Connections	[icon]	Establishes network connections settings. See Connections Menu on page 8-1.
Personal	[icon]	Customizes buttons, and set SIP options. See Personal Menu on page 7-3.

Icon		Description
System		Adjusts system settings. See System Menu on page 7-7.
Microsoft My Phone		This icon is present on Dolphin models equipped with WWAN radio (GSM/UMTS/GPRS/EDGE) capabilities. Microsoft My Phone synchronizes your phone's contacts, calendar, tasks, text messages, music, photos, videos, and other documents with your My Phone account at http://myphone.microsoft.com.

Clock & Alarms

The Clock & Alarms settings can be accessed from the Home screen or the Settings Menu.

1. On the Home screen, tap the line that displays the time and date

   OR

   Tap 🏁 > **Settings > Clock & Alarms**,

2. The Clock Settings screen appears. This setting sets the system clock. All scheduled items run according to this setting.
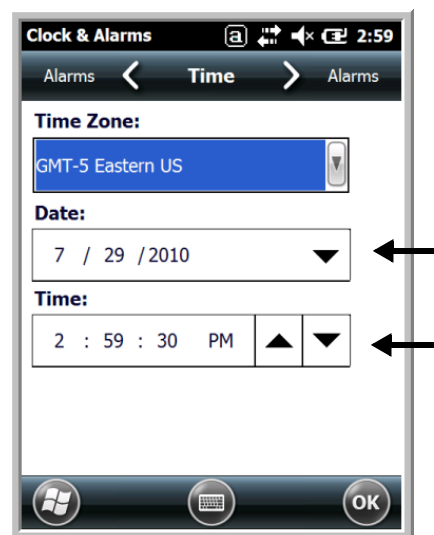
Tap the arrow to the right of the time zone to open the drop down menu. Select the appropriate time zone from the menu. Set the correct time and date in the remaining fields and tap **OK** to save.

Personal Menu

To access the Personal Menu, tap ⊞ > **Settings** ⚙ > **Personal** 🗂. The screen opens displaying the Personal Menu.

Icon		Description
Buttons	📱	Program the side buttons to perform specific tasks. See Buttons on page 7-3.
Owner Information	🖼	Enter your contact information (e.g., name, company, address, telephone number and E-mail address).
Phone	📞	This Phone icon is present on Dolphin models equipped with WWAN radio (GSM/UMTS/GPRS/EDGE) capabilities. Tap this icon to set up user parameters. See Phone Setup Options on page 9-5.

Buttons

The Buttons setting programs certain keyboard buttons to launch applications or execute commands.

Enable HotKeys

Default Buttons setting assignments are inactive until you enable the HotKeys Power Tool.

Tap ⊞ > **Power Tools** and tap the HotKeys icon 📱 **once**. HotKeys is enabled, and the button assignments in the Buttons setting are active.

For more information about the HotKeys Power Tool, refer to the Dolphin Power Tools User's Guide, which is available for download from the web at www.honeywellaidc.com.

Changing Button Assignments

1. After HotKeys is enabled, tap (⊞) > **Settings** > **Personal** (📁) > **Buttons** (📞).
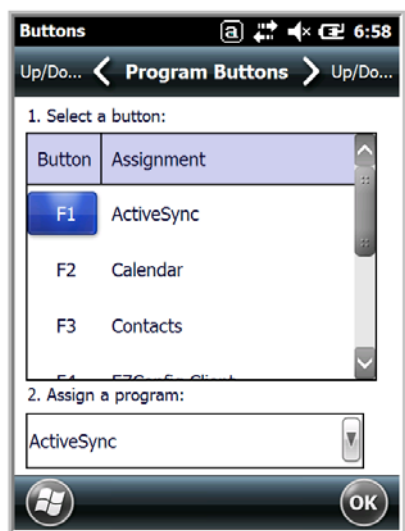
Note: *The buttons that appear on this window are the only buttons that can be programmed via the Buttons setting. You cannot add buttons to this window.*

2. To change button assignment, tap on the name of the button in the **Button** column, and then select a program or command in the **Assign a program** drop down list.

3. Tap **OK** to save.

4. Press the button to verify that the program is launched or action performed.

Available Applications

The **Assign a program** list contains the applications installed on the terminal. If there is a program installed that you would like to see in this list, paste a Shortcut to the program in the `\\Windows\Start Menu\Programs` folder. For instructions about creating shortcuts, see Using File Explorer on page 7-5.

Additional Functions

The **Assign a program** list also contains the following commands:

Command	Description
<Context Menu>	Performs the same function as tap-and-hold to open the context menu for the control.
<Home>	Returns to the Home screen.
<Input Panel>	Opens the soft input panel.
<Left Softkey>	Opens the menu or performs the action displayed on the left side of the Command bar.
<None>	Nothing happens when the button is pressed.
<OK/Close>	Performs the same function as tapping **OK** on the screen.

Command	Description
<Right Softkey>	Opens the menu or performs the action displayed on the right side of the Command bar.
<Rotate Screen>	Changes the screen orientation from portrait to landscape.
<Scan1>	Activates the scanner/imager.
<Scan2>	Activates the scanner/imager.
<Scroll Down>	Scrolls down in the open application.
<Scroll Left>	Scrolls left in the open application.
<Scroll Right>	Scrolls right in the open application.
<Scroll Up>	Scrolls up in the open application.
<Start Menu>	Opens the Start menu.

Using File Explorer

If you do not see the program listed, you can either use File Explorer to move the program or ActiveSync on the workstation to create a shortcut to the program and place the shortcut in the Start Menu folder.

Note: We recommend that you Copy and Paste Shortcut so that you do not alter your program configurations by accident. Using Copy and Paste Shortcut (as opposed to Cut and Paste) ensures that the program files remain where they need to be for the system to find them to perform system functions.

1. Tap > **File Explorer** , and navigate to the program (**My Device > Program Files**).

2. Tap and hold on the program, then tap **Copy** on the pop-up menu.

3. Navigate to the Windows folder and open the Start Menu (**My Device > Windows > Start Menu > Programs**), tap and hold a blank area of the window, and tap **Paste Shortcut** on the pop-up menu.
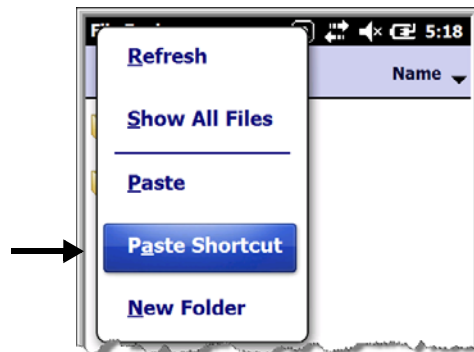
Note: If there is no blank space available in the window, tap on **Menu** *>* **Edit** *>* **Paste Shortcut**.
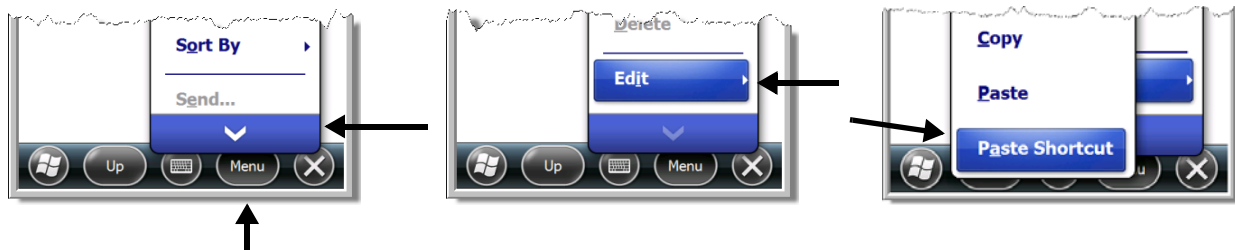
4. Tap to verify that the program now appears on the Start menu.

Using ActiveSync on the Workstation

Here, you are performing the same basic process as on the terminal, except that you are using the Explore utility (Windows Explorer) to copy and paste the shortcut.

1. Open **ActiveSync > Explore** and navigate to the program.

2. Right-click on the program and select **Create Shortcut**.

3. Select the shortcut, right-click, and select **Cut**.

4. Navigate to the **Start Menu** folder (**Windows > Start Menu > Programs**).

5. Right-click on an empty area and select **Paste Shortcut**.

6. On the terminal, tap the **Start** menu.

7. Verify that program appears.

System Menu

The System menu enables you to verify and sometimes alter system parameters. To access the System menu, go to **Start** > **Settings** > **System**. Tap the appropriate icon to open that system setting.

Icon		See Page
About		See About on page 7-8.
Backlight		See Backlight on page 7-9.
Battery		See Battery on page 7-10.
Certificates		See Certificates on page 7-10.
Encryption		See Encryption on page 7-11.
Error Reporting		See Error Reporting on page 7-11.
External GPS		See External GPS on page 7-11.

Icon		See Page
Five Volt Control		See Five Volt Control on page 7-12.
Managed Programs		See Managed Programs on page 7-13.
Memory		See Memory on page 7-14.
Power		See Power on page 7-15.
RIL		See RIL on page 7-15.
Regional Settings		See Regional Settings on page 7-16.
Remove Programs		See Remove Programs on page 7-16.
Screen		See Screen on page 7-18.
Smart Sensors		See Smart Sensor on page 7-12.
Task Manager		See Task Manager on page 7-19.

About

The About system setting displays specific information about the terminal. It contains three screens:

Version Screen   Displays the information about the software, operating system, and processor.

Device ID Screen   Displays the information the terminal uses to identify itself to other devices. It can be important to know this information if the Dolphin terminal is going to be part of a networked system of devices.

   Device name: Displays the system's default name. This is the name used by ActiveSync.

   Description: Displays the description of the device ID.

   Copyrights Screen: Displays important copyright information.

Backlight

The Backlight system setting enables you to customize backlight functionality for the display. The back-light for the color display is user-defined. The Backlight system setting screen contains three tabs: Battery Power, External Power, and Brightness.

Tap ⊞ > **Settings** > **System** > **Backlight**.

Battery Power Tab	External Power Tab	Brightness Tab
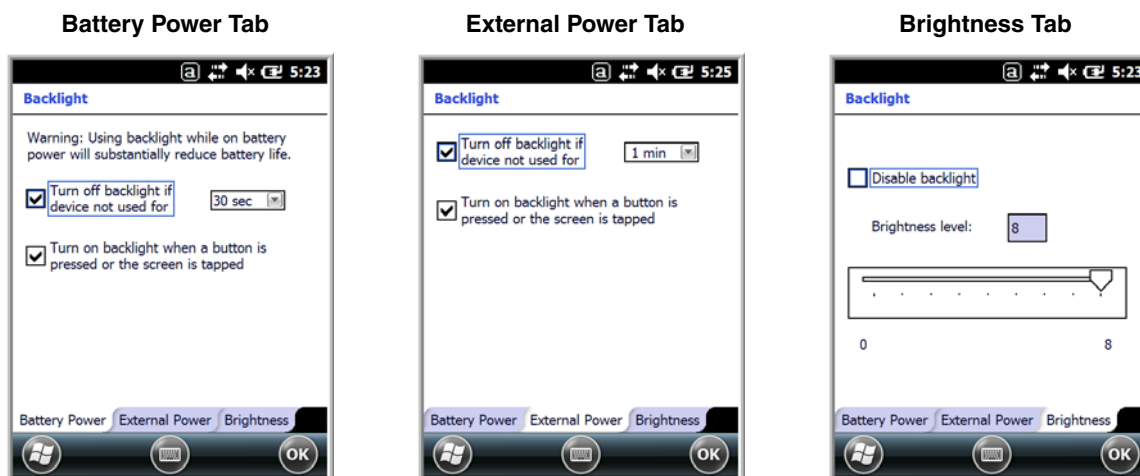
The **Battery Power** tab determines the backlight timeout when the terminal is running on battery power.

The **External Power** tab determines the backlight timeout when the terminal is running on external power.

The options on the power tabs are the same.

Turn off backlight: Select how many minutes you want to elapse before the backlight automatically turns off.

Turn on backlight: Select this option if you want the backlight to turn on when the button is pressed or the touch screen is tapped.

The **Brightness** tab determines the backlight intensity. Move the slider to set the intensity of the back-light. The default is 8.

Battery

The Battery system settings menu contains two tabs: Battery Status and Log Config. The **Battery Status** tab provides the status of the main battery pack (e.g., Battery Time to Full or Battery Time to Empty, Voltage, Current, Temperature, Chemistry, and Serial Number). The **Log Config** Tab allows you to configure the BatteryLogFile.

Tap > **Settings** > **System** > **Battery**

Battery Status Tab	Log Config Tab

When external power is supplied to the terminal, "Battery Time to Full" is listed. When power is supplied by the battery pack, "Battery Time to Empty" is listed.
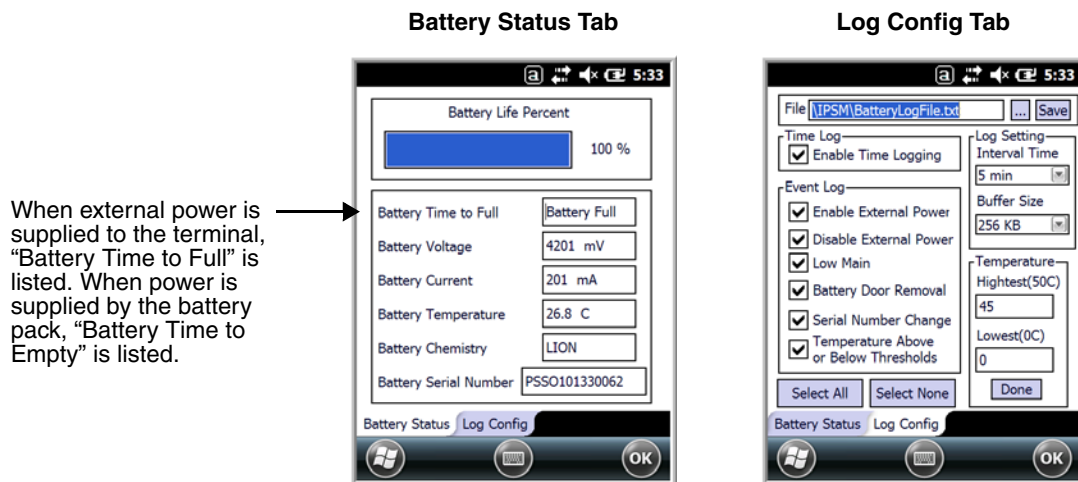
Certificates

Certificates shows you the certificates that are recognized by the operating system. It contains three screens.

Intermediate Screen	Personal Screen	Root Screen
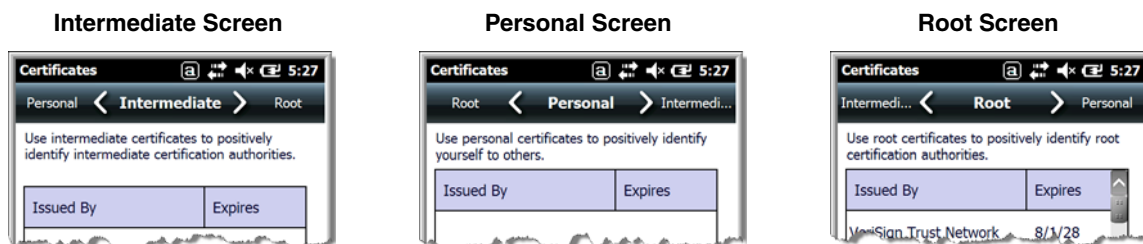
Encryption

Encryption gives you the option of encrypting files placed on storage cards so that those files cannot be read by any other device.

Error Reporting

Error Reporting gives you the option of enabling or disabling the error reporting function of Windows Embedded Handheld 6.5.
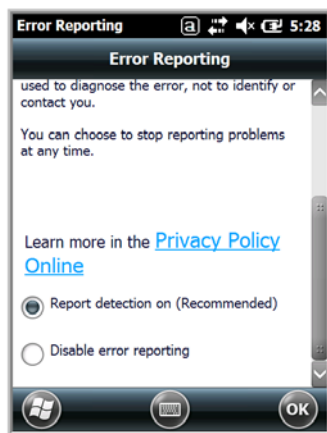
External GPS

External GPS determines which port a third-party GPS software application can use to access the GPS receiver.
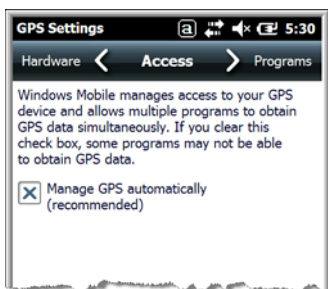
Access Screen	Hardware Screen	Programs Screen
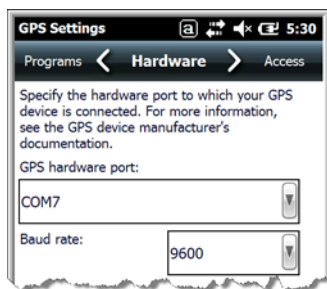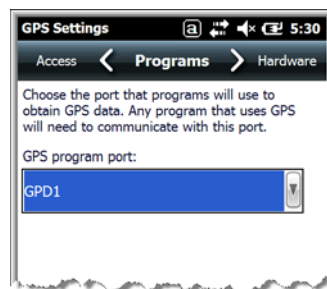
Note: You need the installation parameters from the GPS manufacturer to configure the connection.

Five Volt Control

Five Volt Control gives you the option to manually enable 5V output to supply power to an external device. By default, 5-Volt Output automatically turns on when AC power is applied to the terminal. If you want to use a USB memory stick without AC power, then you must manually turn on the 5-Volt Output. Do not leave 5-Volt output enabled when you are not using it to supply power to an external device.

Smart Sensor

The Smart Sensor configuration utility enables you to configure the Dolphin's integrated accelerometer, and motion settings.

Tap ⊞ > **Settings** > **System** > **Smart Sensor**.

Motion Settings

Motion Settings enable you to customize how the terminal responds to motion and object orientation for advanced power management.
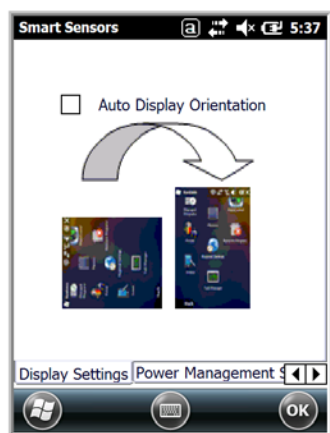
Display Settings enables or disables **Auto Display Orientation**. When enabled, the Dolphin's display automatically switches between portrait and landscape depending on how you hold the terminal.
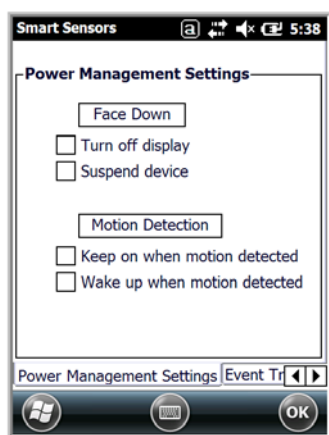
Power Management Settings customize how the terminal responds to object orientation and motion.
- Save power by turning off the display or suspending the terminal when it is placed face down.
- Modify the Motion Detection settings to wake the terminal from suspend mode or prevent the terminal from entering suspend mode when motion is detected.
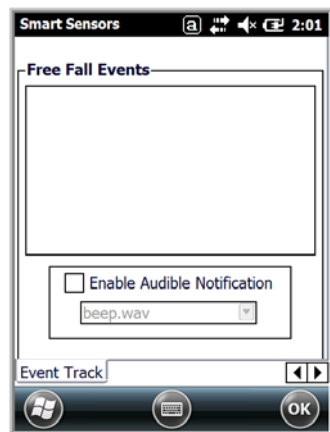
Event Track displays an event log summary of detected free fall events exceeding 2 ft. over 250 ms. The summary includes the time, date, and duration of the most recent 50 events. Several options are provided for audible notification of free fall events.

Accelerometer Calibration
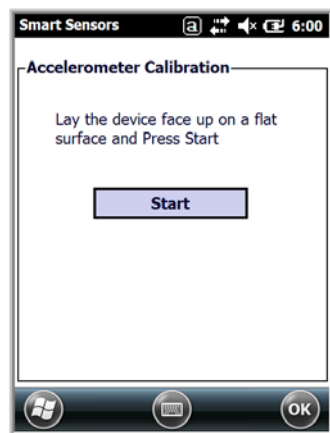
Tap **Start** to calibrate the integrated accelerometer sensor used for motion detection. When calibration is complete, the "Accelerometer Calibration Finished!" message window appears.

Managed Programs

Managed Programs are a list of programs that are managed if enrolled to enterprise domain. Managed Programs is the client-side that works with the server product System Center Mobile Device Manager (MDM). MDM consists of MDM Gateway Server and one or more computers that run MDM Device Management Server; MDM Enrollment Server; and Microsoft SQL Server® 2005 databases.

It lets system administrators:

- provide an authenticated connection to Line of Business (LOB) applications, managed Group Policy, and application packages.
- use Group Policy and software packages to manage the enrolled Windows phones (enforce policy, wipe devices, etc.).
- manage the requests for and retrieving of certificates for devices and for creating the Active Directory® Domain Service objects that represent these devices. By using these objects, you can manage the devices as if they were members of a domain.

Memory

The Memory applet shows the capacity and usage of the Storage and Program portions of the Flash file system. The Storage portion includes the IPSM folder, which can be detailed under the Storage Card tab. When the Program portion becomes too full, you can use the Task Manager to remove any unnecessary tasks.

Main Screen
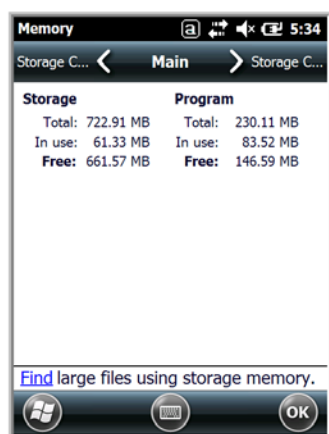
This screen displays the usage statistics of the flash memory.

Storage Card Screen
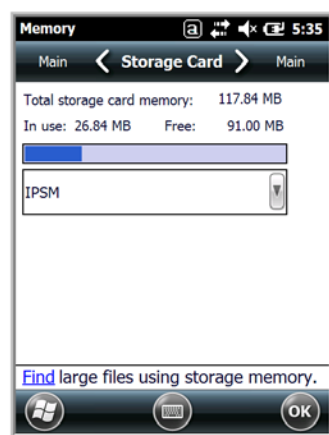
This screen displays the current capacity and usage statistics of the selected memory type: IPSM, RAMDISK or Storage Card.

Select the memory type from the drop-down list. IPSM is selected by default.

Total storage card memory = The total MB of memory capacity of the IPSM, RAMDISK or Storage Card.

In use = The MB currently being used.

Free = The MB that is still available for use.

IPSM (Internal Persistent Storage Manager)
Data or programs stored in the IPSM are not affected when the operating system is upgraded. Autoinstall programs, for example, are stored in \\IPSM\Honeywell\Autoinstall so that they are always installed after an operating system upgrade or factory reset. Contact a Honeywell technical support representative for more information on how to perform a factory reset. For contact information, see Technical Assistance on page 18-1.

RAMDISK

RAMDISK, is a virtual disk that resides in RAM, volatile memory. The virtual disk provides faster access speed than the ISPM or other system folders. RAMDISK is volatile and is cleared when a reset (i.e., soft, hard or factory) is performed or power is lost.

Storage Card

You can install one memory card in Dolphin terminals (see Installing a SIM Card and/ or Memory Card on page 3-16). If a storage card is installed in the terminal, you can select it in the drop-down list and see capacity and usage statistics for the card.

RIL

The RIL Information screen displays useful statistics for the GSM WAN Voice module (PH8). To verify whether or not the GSM radio is enabled, check the Dolphin Wireless Manager (see page 8-4).

Power

Power system settings contains two tabs: Battery and Advanced

Tap ⊞ > **Settings** > **System > Power**

Battery Tab
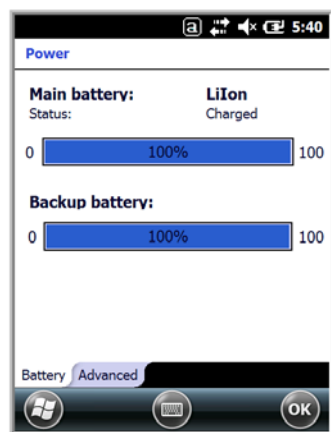
The battery tab displays the power level status of the main battery and the status of the backup battery.

Note: The Backup Battery gauge registers either 0% or 100%. The percentage is not an indication of the level of charge remaining on the backup battery. An installed and functional battery registers 100%. A total discharge or a battery error registers 0%.

For detailed information on the main battery pack, see Battery on page 7-10.

Advanced Tab
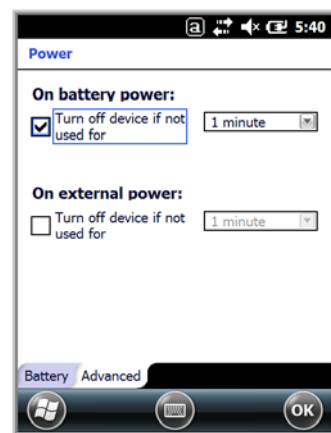
Determines power time-outs.

For **On battery power**, select from the drop-down list, the number of minutes of inactivity you want to pass before the terminal powers off when running on battery power.

For **On external power**, select from the drop-down list, the number of minutes of inactivity you want to pass before the terminal powers off when running on external power.

Note: When the terminal "powers off", it enters Suspend Mode, see page 2-11 for additional information.

Regional Settings

Regional Settings enables you to customize the appearance and formatting to your geographic region. Specifically, you can customize numbers (i.e., number of decimal places allowed), currency (i.e.,using the $ or € symbol), time, and date. These specifications apply to all screens, including the Home screen. The Region tab displays an overview of the region selected in the drop-down list at the top.

The terminal is loaded with a number of pre-programmed regional settings. Select one from the list and the results appear on the screen. To see specific settings or to change a specific setting, tap on one of the items on the horizontal scroll bar (i.e., Region, Number, Date), make the change, and tap **OK** to save.

Remove Programs

Remove Programs enables you to remove programs installed on the terminal. Any program (usually CAB or DLL files) stored in the **IPSM\Honeywell\Autoinstall** folder re-installs after a software upgrade or a factory reset. If a program is manually removed using the **Remove Programs** application, the program does not re-install on a hard or soft reset.

Note: A program (file) does not automatically install if it is added to the \\IPSM\Honeywell\Autoinstall folder and a hard or soft reset is performed. For information on program installation, see Installing Additional Software on page 8-8.

For information about the system resets, see Resetting the Terminal on page 2-11. See Honeywell support for more information on how to perform a factory reset.

1.   Tap **Remove Programs**. In the list, select the program you want to remove.
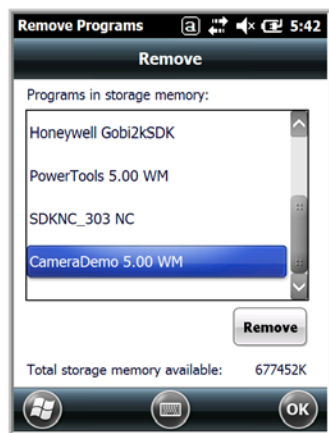
2. Tap **Remove**. The following message appears:

3. Tap **Yes**. Wait while the program is removed.

4. Verify that the program no longer appears in the list.

Screen

The Screen system setting contains three screens: General, Clear Type, and Text Size.

General Screen
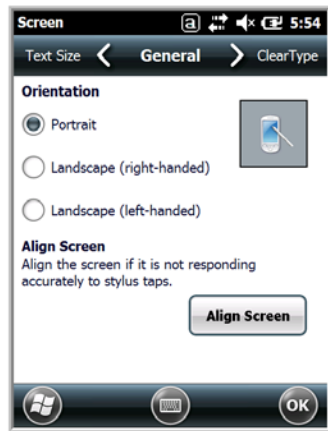
Orientation
The General screen enables you to set the dynamic screen rotation. Three choices of screen orientation are supported: Portrait, Landscape (right-handed), and Landscape (left-handed).

Align Screen
The General Tab also allows you to re-align the screen.
You need to re-align the screen if tapping buttons or icons with the stylus no longer seems to work appropriately.

Tapping **Align Screen** brings up the align screen window where you are guided to tap a target several times. This re-calibrates how the touch screen receives input.

- Alignment should always be performed with a stylus designed for touch panel applications. The small point is required for accurate calibration.
- Press the stylus firmly into the center of the cross-hair target once and release. Do not "double-tap" the target.

ClearType Screen
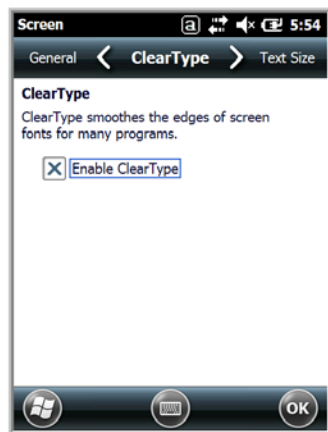
The display supports ClearType font rendering, which is a Microsoft technology that dramatically increases the readability of text on LCD displays.

To enable ClearType font rendering, select **Enable ClearType** and tap **OK**.

For more information about ClearType font rendering, visit: www.microsoft.com/typography/WhatIsClearType.mspx.

Text Size Screen
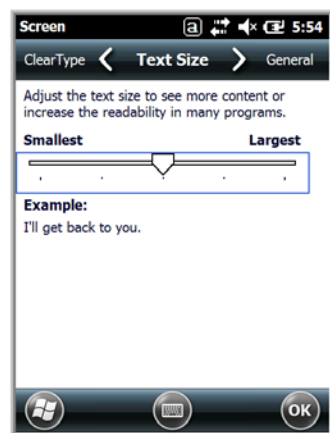
The Text Size screen enables you to perform font scaling within certain views of the:
- Home screen,
- Contacts,
- Calendar,
- Messaging, and
- Tasks.

Font scaling means that you can increase or decrease the point size of the font on application windows.

To change the font size, move the slider toward **Smallest** or **Largest**. The Example text changes to reflect the font change. Tap **OK** to save the new font size setting.

Task Manager

The Task Manager provides information about applications and processes running on your mobile computer. You can use the Task Manager to monitor the memory and CPU usage of specific applications and processes. Check the Task Manager when you are receiving out of memory errors or when the mobile computer is running slowly.

Using the Task Manager

Applications
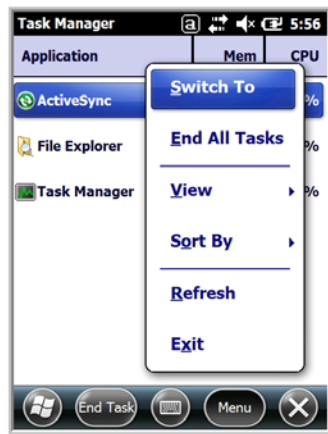
To view the status of the programs running on your mobile computer, tap the **Menu** button at the bottom of the screen, then tap **View > Applications**.

From the application list, you can:
• Tap and hold on an application, then tap **Switch To** on the pop-up menu.
• Tap and hold on an application, then tap **End Task** or **End All Tasks** on the pop-up menu.

Note: Anytime you stop a running program, it frees up memory. To free up memory, return to the running program, save your data, and close the application.

Processes
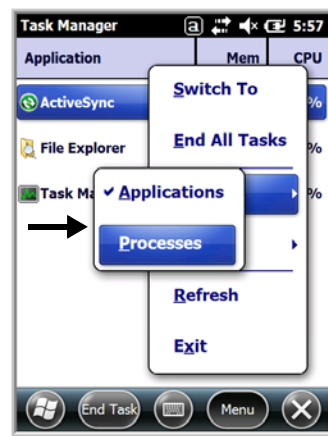
To view information about the processes running on the mobile computer, tap the **Menu** button at the bottom of the screen, then tap **View > Processes**.

8

Communication

Connections Menu

The Connections system setting provides access to the terminal's various wireless communication options.

Icon		Tapping this icon…
Beam		Enable the terminal to receive incoming beams from devices using Bluetooth wireless technology. See Working with the Bluetooth Radio on page 10-1.
Connections		Opens Microsoft's connections manager. See Connections Manager on page 8-2.
Dolphin Wireless Manager		Manages the wireless radios installed in the terminal. See Dolphin Wireless Manager on page 8-4. *Note: The Dolphin Wireless Manager icon may not appear on the Connections menu on terminals running Microsoft Windows Embedded Handheld 6.5 Classic. For information on how to access the Dolphin Wireless Manager, see page 8-4.*
Domain Enroll		Opens the Enrollment screen for connecting your phone with company resources. *Note: System administrator password is required for domain enrollment.*
USB to PC		Enables advanced wired USB to PC communication via sync software. See Connecting and Synchronizing the Terminal and Workstation on page 8-6.
Network Cards		Manage Network card settings.

Note: All server-assigned IP addresses use Dynamic Host Configuration Protocol (DHCP).

Connections Manager

Microsoft's Connections Manager sets up multiple network connections to Internet Service Providers (ISPs) via external modem.

Do NOT enter connection parameters in the Connections Manager if:

- you are using one of the on-board wireless radios to connect to a network. The Dolphin terminal uses the settings from each radio's configuration utility to connect. The connections manager is used primarily to setup WAN modem dial up connections.
- you are using Wireless Zero Config. By default, WZC is disabled on Dolphin terminals.

To Access the Connections Manager

Tap ⊞ > **Settings** > **Connections** 📁 > **Connections** 🖥 .
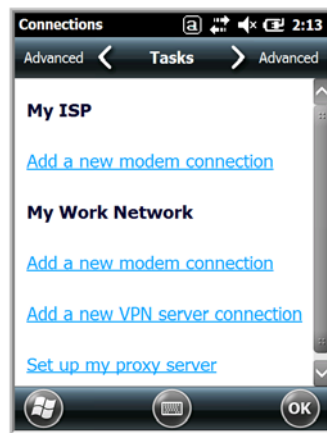
Tasks

The Tasks screen enables you to initially configure, and then manage network settings when using a modem. Select an item in this list and then complete the setup screens that follow with the appropriate information for your network.

My ISP

The links under this heading enables you to add and manage modem connections to an ISP. To complete the setup screens, obtain the following information from your ISP:

- ISP dial-up access telephone number
- Username
- Password
- TCP/IP settings

My Work Network

These links enable you to establish the following connections types:

- Modem
- Virtual Private Network (VPN)

- Proxy server connection

Note: If you are connected to your ISP or private network during synchronization, the terminal should download the proper proxy settings during synchronization with the workstation. If these settings are not on your workstation or need to be changed, ask your ISP or network administrator for the proxy sever name, server type, port, type of Socks protocol used, and your user name and password.

To complete the setup screens, obtain the network parameters from your system administrator.

Modify an Existing Connection

Manage Existing Connections appears on the Connections tab after at least one network connection has been established.

Tap **Manage Existing Connections** on the Horizontal scroll and follow the setup screens.

Advanced

The Advanced screen enables you to select the default network, dialing rules, and IP address exceptions for modem connections.
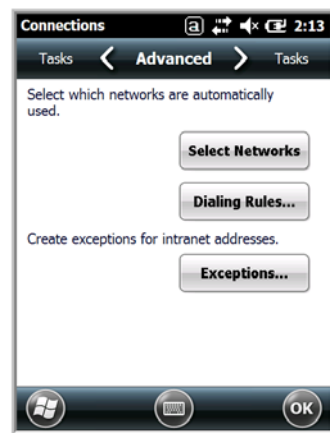
Note: You should not need to change Advanced settings because most ISPs now use DHCP addresses.

Dolphin Wireless Manager

The Dolphin Wireless Manager provides a centralized interface that enables and disables all the on-board radios. Each radio has its own configuration program. The Dolphin Wireless Manager also provides shortcuts to the configuration utilities for each radio.

Tap on the Home screen to access the **Dolphin Wireless Manager**.

OR

1. Tap once on the Title bar to access the Horizontal Scroll bar.

2. Tap .

3. Select, "Dolphin Wireless Manager".
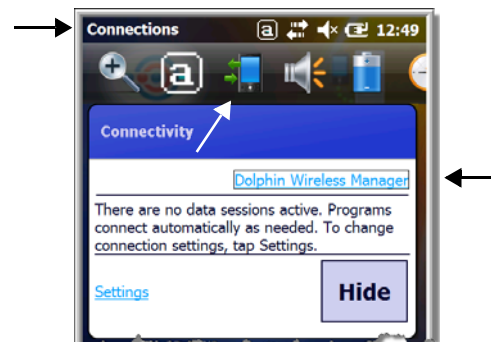
Dolphin Wireless Manager Window

These buttons show you the state of the radio.

If applicable, information about the radio appears when the radio is activated.
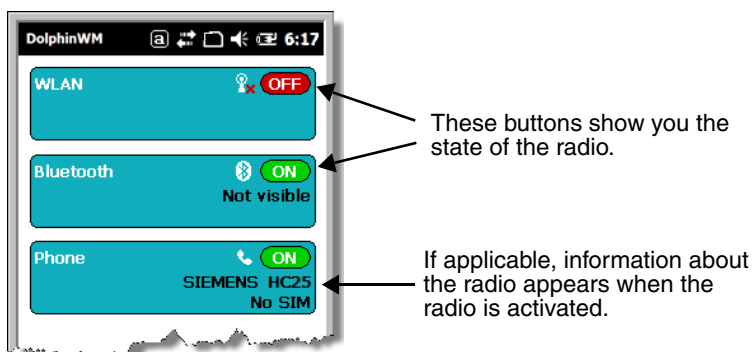
Enabling the Radios

1. Tap on the Home screen to access the **Dolphin Wireless Manager**.

2. Tap anywhere inside the rectangle of the radio you want to enable.

3. The radio begins activating.

4. When the radio is activated (i.e., transmitting a signal), the **OFF** button changes to **ON**.

Note: If applicable, information about the radio appears in the rectangle.

Accessing Radio Configuration Utilities

Each radio has its own configuration utility that you can access by tapping **Menu** on the tile bar.

Radio Type	Menu Option
802.11a/b/g/n	Tap **WLAN Settings** and the Honeywell WLAN Security Supplicant opens.
	The *Honeywell WLAN Security Supplicant User's Guide* is available for download from the Dolphin 7800 product page at www.honeywellaidc.com.
Bluetooth	Tap **Bluetooth Settings** and the Bluetooth Settings screen opens. For details, see Working with the Bluetooth Radio on page 10-1.
GSM/HSDPA/UMTS/GPRS/ EDGE	Tap **Phone Settings** and the Phone opens. For details, see Working with Wireless Wide Area Networking (WWAN) on page 9-1.
GSM/CDMA	Tap **Gobi Settings** and the Gobi Manager opens. For details, see Gobi Manager on page 9-11.

Network Cards

The Network Cards screen allows you to set and configure the type of Network Adapter the Network card in the terminal uses. You can modify the adapter settings (e.g., Name Servers or IP address) by tapping on the adapter type or highlighting the adapter and tapping **Edit** at the bottom of the screen.
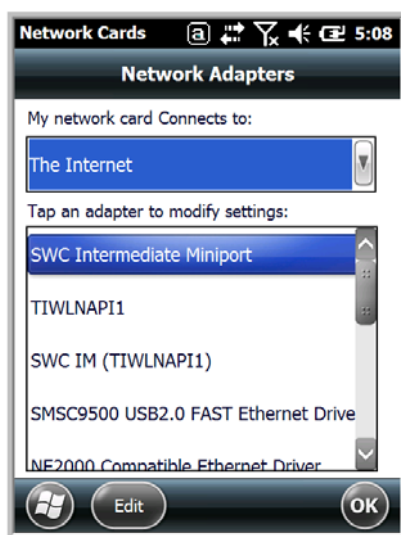
Connecting and Synchronizing the Terminal and Workstation

To synchronize data between the terminal and the workstation, ActiveSync (version 4.5 or higher) or Windows Mobile Device Center (WMDC) must be installed and configured for the appropriate communication type on the host workstation (Windows-based PC) and the Dolphin terminal. Dolphin terminals ship with ActiveSync already installed. Therefore, if ActiveSync or WMDC is already installed on the host workstation, you just need to connect the Dolphin terminal to the host workstation (via Dolphin peripheral) to initiate communication.

If ActiveSync (4.5 or higher) or WMDC is not installed on the host workstation, you can download and install the most current version of the software from the Microsoft Web site (http://go.microsoft.com/fwlink/?LinkId=147001).

Note: ActiveSync on your Dolphin terminal works with WMDC on host workstations running Windows Vista or Windows 7 and with ActiveSync on host workstations running Windows XP. For detailed information on ActiveSync and WMDC visit the Microsoft Windows Phone Web site.

⚠ *When communicating via ActiveSync or WMDC, your terminal is designed to be connected to the host workstation with a communication peripheral sold/manufactured by Honeywell, such as the charge/ communication cable. Use of any peripheral not sold/manufactured by Honeywell may cause damage not covered by the warranty.*

Capabilities

- Back up and restore your device data.
- Copy (rather than synchronize) files between your device and workstation.
- Control when synchronization occurs by selecting a synchronization mode. For example, you can synchronize continually while connected to your workstation or only when you choose the synchronize command.

- Select which information types are synchronized, controlling how much data is synchronized. For example, you can choose how many weeks of past appointments you want synchronized.

Communication Types

The 7800 terminal supports Hi-Speed USB communication (USB 2.0) via ActiveSync through the I/O Connector (see page 3-11) on the bottom panel of the terminal. The maximum data transfer rate is 480 Mbps. A USB cable and a Honeywell hardware peripheral (e.g., HomeBase) allow the terminal to communicate with a workstation or to networked through a USB hub. The Dolphin terminal defaults to USB communication out of the box.

Hardware Requirements for Setup

- Dolphin communication peripheral (e.g., HomeBase, eBase, USB Communication/Charge Cable) and power supply.
- A USB cable if one is not supplied with your Dolphin communication peripheral.

Software Requirements for Communication

- ActiveSync (v4.5 or higher) or Windows Mobile Device Center installed and configured on the host workstation (PC), see Setting Up the Host Workstation on page 8-7.

  Note: ActiveSync or Windows Mobile Device Center must be setup on your workstation before you initiate synchronization from the terminal for the first time.

- Windows 98 Second Edition, Windows Me, Windows 2000, Windows NT (4.0 SP6 or higher), Windows XP, Windows Vista, and Windows 7 operating systems.

Setting Up the Host Workstation

To synchronize data between the terminal and the workstation, ActiveSync (v4.5 or higher) or Windows Mobile Device Center must be configured for same communication type on both the host workstation and the Dolphin terminal.

ActiveSync

Verify that ActiveSync is configured to use the appropriate communication type.

1. In the ActiveSync window on your workstation, select **File** > **Connection Settings**.

2. Check the box next to "Allow USB connections".

Connecting the Dolphin Terminal to the Host Workstation

After setting up both the workstation and the terminal:

1. Connect the Dolphin terminal to the workstation using a Dolphin communication peripheral.

2. ActiveSync or Windows Mobile Device Center should open and connect automatically to the Dolphin terminal.

Synchronizing with the Host Workstation

After setup, synchronization begins automatically whenever the terminal's mechanical connector connects to a Dolphin peripheral that is connected to a host workstation with ActiveSync or Windows Mobile Device Center installed. For additional information visit the Microsoft Phone Web site (http://go.microsoft.com/fwlink/?LinkId=147001).

Exploring the Terminal from the Workstation

ActiveSync

1. Open the main ActiveSync window (on the desktop).

2. Click **Explore**. This opens the Mobile Device folder for the terminal in Windows Explorer.

3. The Dolphin terminal is now treated as a mass storage device, and transferring files is as simple as dragging and dropping or copying and pasting.

Windows Mobile Device Center

1. Open Windows Mobile Device Center (on the desktop).

2. Click **File Management**. This opens the Mobile Device folder for the terminal.

3. The Dolphin terminal is now treated as a mass storage device, and transferring files is as simple as dragging and dropping or copying and pasting.

Installing Additional Software

Dolphin terminals ship with the operating system, radio drivers, and custom Honeywell software already installed. These are the default programs that install when your terminal first boots up. You can install additional software programs to the terminal provided that the following parameters are met:

- The software program was created for a Windows Embedded Handheld 6.5 device.
- The terminal has enough memory to store and run the program.
- The program has an EXE, CAB, or DLL extension.

When selecting programs, verify that the program and version of the program are designed for the Windows Embedded Handheld 6.5 and the terminal's processor. You can verify your processor by tapping

     > **Settings > System > About > Version**. Make a note of the information in the **Processor** field.

To install additional software, you can use the communication options described in this chapter.

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-

Adding Programs Using ActiveSync or Windows Mobile Device Center

Generally, software for Windows Embedded Handheld devices must be installed to the host workstation first, then transferred to the Dolphin terminal.

Note: An active Microsoft ActiveSync or Windows Mobile Device Center connection between a host workstation and the Dolphin terminal is required to add programs. For additional information, see Connecting and Synchronizing the Terminal and Workstation on page 8-6.

1. Download the program to the workstation from either the Internet or the install CD. You may see a single *.exe or setup.exe file, a *.cab file, or a *.dll file.

   Note: There may be several versions of files for different device types and processors. Select the file that matches the terminal's processor.

2. Read any installation instructions, Read Me files, or documentation that comes with the program. Many programs provide special installation instructions.

3. Connect the terminal to the workstation via a Dolphin communication peripheral.

If the File is an Installer (*.exe or *.setup.exe)

An installer program is one that installs on the workstation and the terminal simultaneously; one process installs to both devices.

1. On the workstation, double-click the *.exe or setup.exe file. The installation wizard begins.

2. Follow the directions on the workstation screen. The installation process includes transferring the software to the Dolphin terminal.

If the File is Not an Installer

Some programs cannot be installed on PCs because they are designed exclusively for Windows Embedded Handheld devices. In these cases, the appropriate files must be stored on the host workstation and transferred to the terminal via ActiveSync Explore or Windows Device Mobile File Management.

Note: You know that the program is not an installer because an error message stating that the program is valid but designed for a different type of computer appears when you try to install the program on the workstation.

1. If you cannot find any installation instructions for the program in the Read Me file or documentation, do one of the following:

   a. Open **ActiveSync** and click **Explore,** or

   b. Open **Windows Mobile Device Center** and click **File Management**

2. On the workstation, navigate to the workstation folder containing the program file(s). Copy and paste the file(s) into the **Program Files** folder on the terminal.

   - If you want the program to be part of the Autoinstall that occurs after a factory reset or software upgrade, paste the program file(s) in both the `\IPSM\Honeywell\Autoinstall` folder and the `\Honeywell\Autoinstall`.

   Note: Contact a Honeywell technical support representative for information on how to perform a factory reset. See Technical Assistance on page 18-1 or go to www.honeywellaidc.com.

3. On the terminal from the Start screen, tap **File Explorer,** navigate to the folder where the program is located.

4. Tap on the program file to start the installation.

   - If you copied the file to the `\Honeywell\Autoinstall` folder, you can perform a Soft Reset (BLUE 🔵 + END 📞) to install the program. For more information, see Hardware Maintenance on page 3-16.

Connecting the Terminal to a Wireless Network

You connect the terminal to a wireless network through the on-board radio (802.11a/b/g/n, Bluetooth, and/or GSM/CDMA). Each radio has its own configuration utility and requires specific information about the wireless network to connect. Successful connection depends on your network infrastructure about which you will need specific information from your network administrator.

WLAN (802.11a/b/g/n)

The 7800 has a 2.4 GHz 802.11b/g/n - 5.0 GHz 802.11a/n WLAN (Wireless Local Area Network) radio. The radio is interoperable with other 802.11a/b/g/n, Wi-Fi compliant products including access points (APs), workstations via PC card adapters, and other wireless portable devices. By default, the 802.11a/b/g/n radio is disabled after each factory reset. The next step is to configure the connection parameters of the radio to connect to a wireless network.

WLAN Radio

The WLAN radio is configured in the Honeywell WLAN Security Supplicant, which you access by tapping the program icon in the task tray near the bottom of the touch screen. For complete configuration instructions, download the *Honeywell Secure Wireless Client (SWC) User's Guide* from www.honeywellaidc.com. A link to this guide appears on the Dolphin 7800 product page.

Adding Programs Using the Internet

When you have established a network connection, you can access the Internet and download additional software programs.

Note: When selecting programs, verify that the program and version of the program are designed for Windows Embedded Handheld and the terminal's processor. You can verify your processor by tapping

> **> Settings > System > About > Version**. *Make a note of the information in the Processor field.*

1. Open Internet Explorer and navigate to the program's location. You may see a single *.exe or setup.exe file, or several versions of files for different device types and processors.

2. Select the program version that matches your Dolphin terminal and processor.

3. Read any installation instructions, Read Me files, or documentation that comes with the program. Many programs provide special installation instructions.

4. Download the program to the terminal directly from the Internet. You would normally store the program in the \Program Files folder unless another location is required by the program.

5. On the terminal, tap the installer file: e.g., *.exe or setup.exe file.

6. The installation wizard for the program begins.

7. Follow the directions on the screen to complete the installation.

Software Upgrades

Contact a Honeywell technical support representative for information on available software upgrades for your Dolphin terminal, see Customer Support on page 18-1 or go to www.honeywellaidc.com.

⚠ To prevent data loss, back up all user data to an SD card or external memory device before performing an upgrade.

Note: An active Microsoft ActiveSync or Windows Mobile Device Center connection between a host workstation and the Dolphin terminal may be required for some types of software upgrades. For additional information, see Connecting and Synchronizing the Terminal and Workstation on page 8-6.

For information on File Provisioning on the 7800, see page 2-10.

7800 COM Port Assignment Table

COM Port	Description
COM0	Unused
COM1	Unused
COM2	Bluetooth
COM3	Unused
COM4	Available
COM5	Bluetooth DUN
COM6	Unused
COM7	**GPS:** COM Port for the GPS receiver
COM8	**USB Serial:** Virtual USB Serial port for ActiveSync
COM9	Bluetooth BTHATCI server

9

Working with Wireless Wide Area Networking (WWAN)

Overview

The 7800 has two options for WWAN connectivity, a voice + data GSM/HSPA+/UMTS/GPRS/EDGE or a data only Gobi radio, which supports GSM/HSPA+/UMTS/GPRS/EDGE and CDMA/1xRTT/EVDO Rev A.

GSM   Short for Global System for Mobile communications, GSM is an open, non-proprietary wireless WAN system that is constantly evolving and growing.

HSPA+   Short for High-Speed Download Packet Access, HSPA+ is a non-voice value added service that allows packet-switched data to be instantly sent and received across mobile telephone networks.

UMTS   Short for Universal Mobile Telecommunications System, UMTS is a non-voice value added service that allows packet-switched data to be instantly sent and received across mobile telephone networks.

GPRS   Short for General Packet Radio Service, GPRS is a non-voice value added service that allows packet-switched data to be instantly sent and received across mobile telephone networks.

EDGE   E-GPRS is a non-voice value added service that allows packet-switched data to be instantly sent and received across mobile telephone networks at a higher data rate than standard GPRS.

CDMA   Short for Code Division Multiple Access.

1xRTT   Short for Single-Carrier Radio Transmission Technology.

EVDO   Short for Evolution-Data Optimized.

Requirements

Using GSM/HSPA+/UMTS/GPRS/EDGE requires:

- a network subscription to a GSM/HSPA+/UMTS/GPRS/EDGE network (you need to know what service providers are in your geographic area), and
- an installed SIM card that has been activated by the network service provider (see Installing a SIM Card and/or Memory Card on page 3-16).

Using a CDMA requires:

- an active account with a CDMA carrier. The account is linked to the Mobile Equipment Identifier (MEID) of the integrated WWAN radio.

Antenna Band

The WWAN radio features an internal antenna that is optimized for power output and receiver sensitivity. This is an omni-directional antenna.

For terminals equipped with the data only Gobi 3000 WWAN radio, there is a penta band antenna that supports 800/850/900/AWS/1900/2100MHz (HSPA/UMTS), 850/900/1800/1900MHz (GSM/GPRS/EDGE), and 800/1900MHz (EVDO/CDMA).

For terminals equipped with the voice + data (Phone) WWAN radio, there is a slightly different penta band antenna that supports 800/850/AWS/1900/2100MHz (HSPA+/UMTS), and 850/900/1800/1900MHz (GSM/GPRS/EDGE).

Signal Strength

On terminals equipped with a WWAN (voice + data) radio, the signal strength of the WWAN connection is indicated by the number of bars that appear in the signal strength icon in the Title bar at the top of the window.

Icon	Indicates…
	The signal strength of the radio connection.
	The signal strength of the phone (voice) connection; see Voice Communication, Using the Dolphin as a Phone on page 9-3.
	The signal strength of the data connection; see Data Communication (GSM/HSPA+ Global Radio Dolphin Models) on page 9-7.

Voice and Data Communication

Dolphin terminals with integrated GSM/HSPA+/UMTS/GPRS/EDGE (voice + data) radios are optimized for the following two-way communications:

Voice: GSM voice data (dial-up)

Data: Available speed depends on the wireless network carrier and their supported packet-data technology in addition to network conditions.

>
> GPRS Class 10: data transmission max. 85.6 kbps (DL), max. 42.8 kbps (UL)
> HSPA+: data transmission max. 14.4 Mbps (DL), max. 5.76Mbps (UL)
> UMTS: data transmission max. 384 kbps (DL), max 384 kbps (UL)
> EDGE (E-GPRS) Class 10: data transmission max. 237 kbps (DL), max. 118 kbps (UL)

Note: You can use the GSM radio for simultaneous voice and data communication on a UMTS (3G) network only. On a GSM network, if you want to communicate over the phone (voice), you cannot send data. If you want to send data, you cannot use the phone.

Enabling the WWAN Radio

By default, the WWAN radio is not enabled after a factory reset. Verify the status of the radio in the Dolphin Wireless Manager.

Tap [icon] on the Home screen to access the **Dolphin Wireless Manager**.

If the WWAN radio is OFF, tap the rectangle to enable or turn ON the radio.
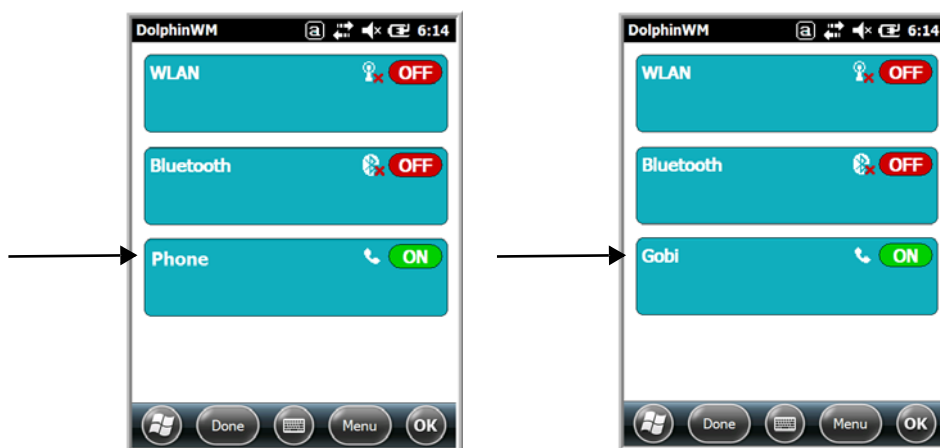
Voice Communication, Using the Dolphin as a Phone

If your Dolphin model is equipped for voice + data WWAN connectivity, you can use the terminal as a phone over the GSM radio.

Audio Modes

The front panel of the 7800 contains both a speaker and a microphone that you can use to send and receive audio signals over the GSM network, see Front Panel: 7800 on page 3-5.

There are two audio modes:

- **Handset Mode** - The front speaker is used for receiving handset voice calls and the front panel microphone provides audio input to the terminal.
- **Hands-Free Mode** - Hands-free mode is when you use the rear speaker as a speakerphone. To switch to speakerphone, tap on the speaker button in the Dialer window, see Accessing the Dialer Window on page 9-4.

Volume Control

Blue & **VOL** ⬆

Use the Dolphin keyboard to adjust the volume.

To raise the volume, press the Blue modifier key + up arrow.

To lower the volume, press the Blue modifier key + down arrow.

Blue & ⬇ **PG**

Or

Press the up or down arrow on the Volume Control button on the left side of the device to adjust the volume of the active speaker, see Volume Control Button on page 3-7.

Accessing the Dialer Window

Note: The WWAN radio must be active for voice communication, see Enabling the WWAN Radio on page 9-3.

Tap [Phone] on the Home screen or tap ⊞ > **Phone** 📞 to open the Phone dialer.

Displays the network carrier from the SIM card. ⟶

Displays the most recent calls. ⟶
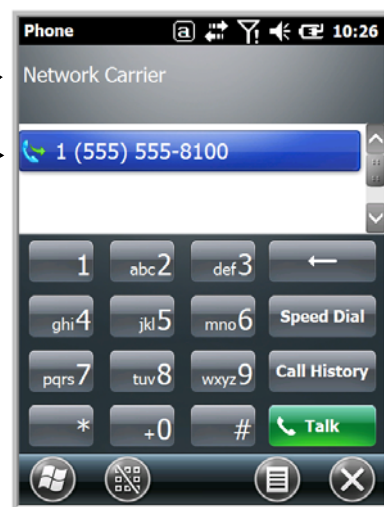
Toggles the touch screen keypad ON or OFF.

Menu

Dialing

Once the dialer window is open, you can dial out two ways:

- Tap the buttons on the dialer window.
- Use the physical keyboard (when the keyboard is in numeric mode).

Sending Calls

After the number is dialed, tap **Talk** [Talk] or press the **Send** key (.

Note: The 📶 *icon indicates that the phone is in use.*

Ending Calls

While the phone call is live, tap **End** [End] or **End** Key 🔴 .

Accessing Voice Mail

Tap ⊞ > **Phone** 📞 > **Speed Dial** [Speed Dial] > **Voice Mail** > **Call**.

Note: Update the voice mail retrieval number by turning the phone OFF and then ON via the Dolphin Wireless Manager, see

View Options

From the view menu, you can modify the display screen to show Calls and Contacts, All Calls or Speed Dial numbers.

Tap **Menu** ▤ > **View**.

Phone Setup Options

The Options menu contains four setting widows: Sounds, Security, Services, and Network.

Tap **Menu** ▤ > **Options**.

Sounds
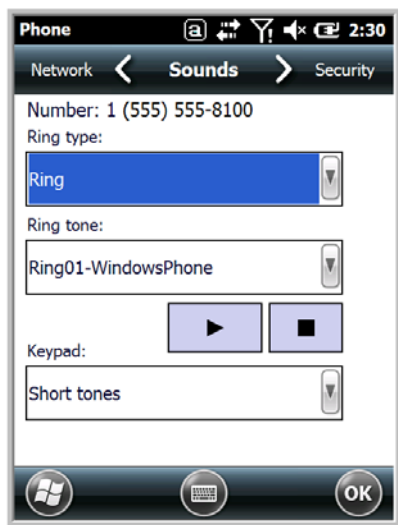
The **Sounds** screen enables you to customize the:
- Ring type (e.g., Ring, Increasing ring, Ring once, Vibrate, Vibrate and ring, Vibrate then ring or None)
- Ring tone
- Keypad tone (e.g., Long, Short, or Off)

Security

The **Security** screen provides access to establish or change your security PIN. Check the box next to, "Require a PIN when the phone is used" to enable the PIN security feature.

Services
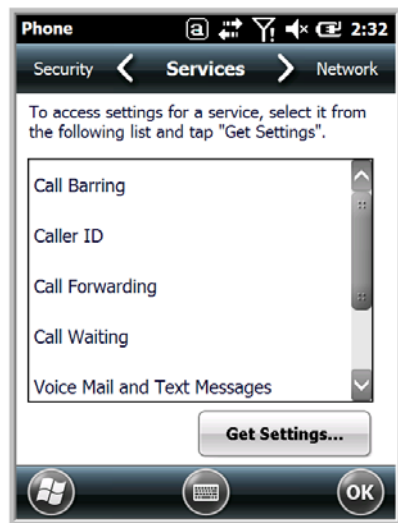
For each service, the phone reads settings from the network stored on the SIM card and then displays the available options from the carrier on the screen. To customize the settings, select it from the list and tap "Get Settings".

Network
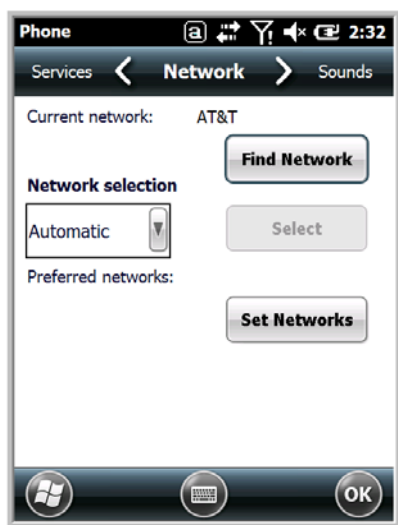
You can find, select, and set your preferred network order from the **Network** screen.

Data Communication (GSM/HSPA+ Global Radio Dolphin Models)

You set up data communication via the Connections Manager. The carrier on the SIM card is the ISP.

System Requirements

- The GSM radio must be enabled; see Enabling the WWAN Radio on page 9-3.
- You must have an active SIM card with a DATA plan installed; see Installing a SIM Card and/or Memory Card on page 3-16.

Information Requirements

You must have from the SIM card carrier:

- The APN (access point name).
- The user name and password of the account.

Establishing Data Communication

1. Tap   > **Settings** > **Connection** > **Connections**   .

2. Under My ISP, tap **Add a new modem connection**.

3. Enter a name for the connection. Select **Cellular Line (GPRS)** as the modem. Tap **Next**.
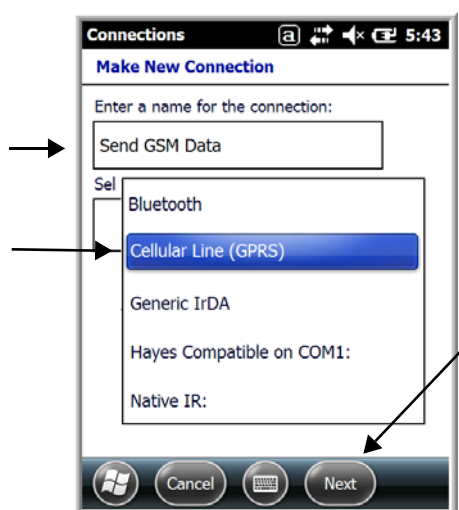
4. Enter the Access point name. Tap **Next**.
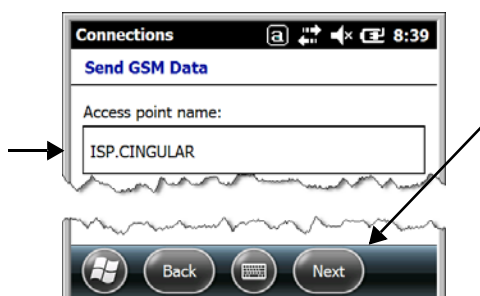
5. Enter the user name and password from the account. Tap **Finish**.
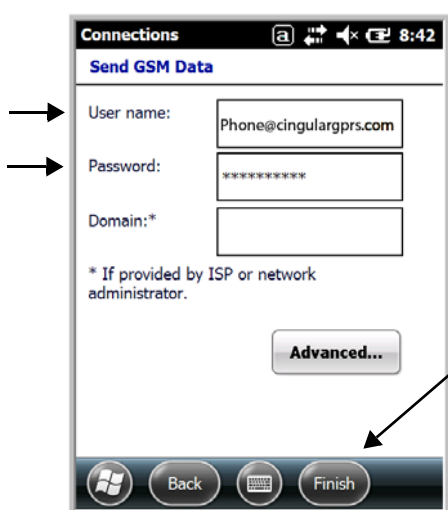
6. The connection you just created should appear in the list on the modem tab.
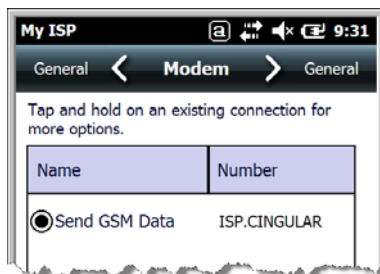
7. Tap and hold on the connection. Select **Connect** on the popup menu.
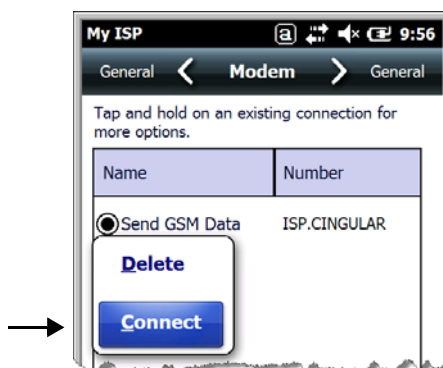
8. The network icon in the Title bar indicates the GSM radio is attempting to connect.

   Note: When the device is on a 2G (EDGE/GPRS) network, a data connection failure occurs if the phone is in use for a voice call while attempting a data connection. Simultaneous voice and data use is only supported if the device is on a 3G network. In 2G mode, a voice call takes precedence over data connections. Active data connections are placed in "park" mode automatically and the data is "retrieved" when the voice call ends.

9. When the connection is complete, the network icon changes to: .

10. You can now send data over GSM.

Ending the Data Connection

By default, the data connection will disconnect after a certain amount of time passes without use. This period of time is determined by ISP.

To end the data connection manually, tap the network icon in the Title bar and select **Disconnect** on the popup bubble.

Manual Network Selection

You can select Automatic or Manual network selection. The Phone defaults to Automatic network selection.

1. When an active SIM card is inserted in the terminal, tap

   (⊞) > **Settings** > **Personal** > **Phone** 📞 > **Menu** > **Options**.

2. Select the **Network** tab.
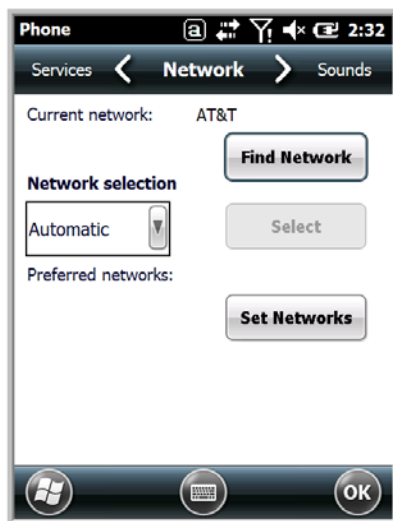
3. Under **Network selection**, select **Automatic** (the default selection) or **Manual**.

   a. If you select **Manual**, the Phone searches for available networks.

   b. The found networks appear.
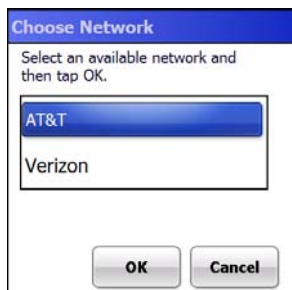
   c. Select a new network and tap **OK**. The Phone registers on the new network and the Network tab appears.

   d. To switch to another network, tap the now active **Select** button and the process repeats.

4. To switch back to automatic roaming, select **Automatic** under **Select networks** and tap **OK**.

Data Communication (GSM/CDMA Dolphin Models)

Gobi Manager

The Gobi Manager enables you to see real time status of the radio, setup your Network selection, view you're profile and scan for networks. The Gobi Manager contains four tabs: Status, Setup, Profile, and About.

1. Tap ![icon] on the Home screen to access the **Dolphin Wireless Manager.**

2. Tap **Menu.**

3. Select **Gobi Settings**.

Status Tab
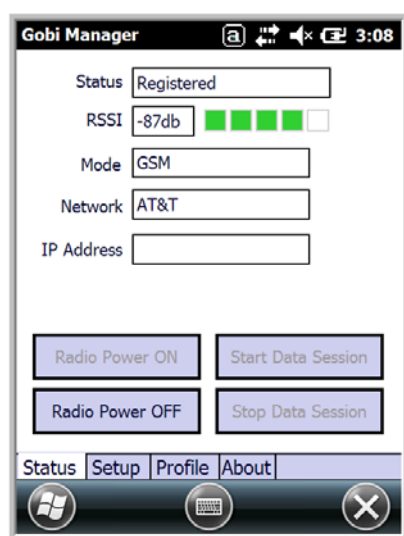
The **Status** tab contains the real time radio status information including:

*   The power status of the radio (e.g., ON or OFF)
*   The received signal strength intensity (RSSI)
*   The radio mode used (e.g., GSM, UMTS, EVDO or 1xRTT)
*   The network firmware used
*   The IP Address assigned

You can also turn the radio ON or OFF and Start or Stop a data session from the Status tab.

Setup Tab
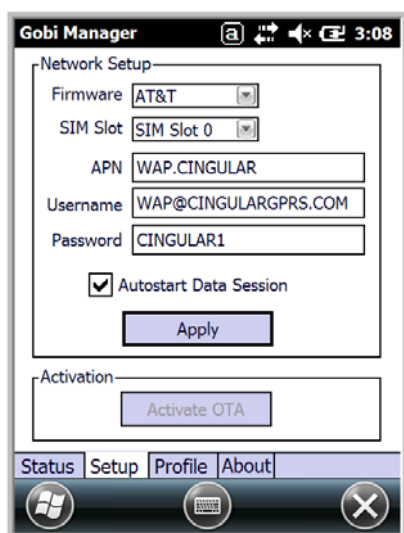
The **Setup** tab allows you to view and customize the Network Setup including:

*   The Network Firmware (e.g., AT&T, Verizon, Sprint, or T-Mobile)
*   The SIM Slot accessed
*   The Access Point Name (APN)
*   The Username of the account
*   The Password of the account
*   Enable or Disable Automatic Data Sessions
*   Activate Over the Air (OTA)

Profile Tab
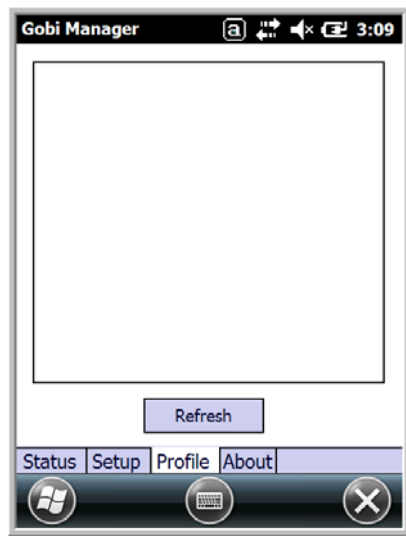
The **Profile** tab allows you to see Radio capability information and network statistics including:

- Radio Hardware and Software versions
- Radio and SIM identification numbers
- Serving network connection type and state
- Available radio interfaces for the current serving network

About Tab   Displays copyright and version information for the Gobi Connection Manager.

Establishing Data Communication

1.   Tap on the Home screen to access the **Dolphin Wireless Manager.**

2.   Tap **Menu** and then select **Gobi Settings.**

3.   From the **Setup** tab, select the carrier and enter user information (GSM only).

Note: An installed SIM card is required and the SIM slot option must be set to 0.

4.   Check the **Auto Start Data Session** check box to automatically start the data session.

5.   Tap the **Apply** button. The Connection Manager automatically switches to the **Status** Tab.

6.   Tap the **Radio Power ON** button.

7.   When the radio connects to the network, the status changes to "Registered*"* and a signal strength is displayed.

8.   If **Auto Start Data Session** was checked on the **Setup** tab, the state automatically changes from "Registered" to "Data Session Open" and an IP address appears. If **Auto Start Data Session** was not selected, then the Data session can be started manually by tapping **Start Data Session** button from the **Status** tab.

10

Working with the Bluetooth Radio

Enabling the Bluetooth Radio

You enable the Bluetooth radio in the Dolphin Wireless Manager (see page 8-4).

1. Tap on the Home screen to access the **Dolphin Wireless Manager**.

2. Tap anywhere inside the Bluetooth rectangle and Bluetooth begins activating.
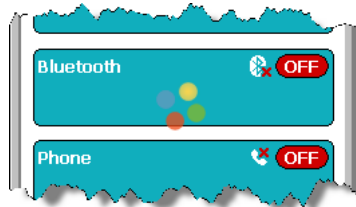
3. When the radio is activated (i.e., transmitting a signal), the **OFF** button changes to **ON**.

Now, the Bluetooth radio is transmitting a signal. Additional text in the Bluetooth section tells information about the Bluetooth radio. "Visible" and "Not visible" indicates whether the Bluetooth radio is discoverable or not discoverable by other Bluetooth devices.

Now, you can connect to other transmitting and discoverable Bluetooth devices (see page 10-2).

To make the terminal discoverable, see page 10-6.

Pairing and Trusted Devices

The terminal does support pairing. Pairing happens during general connection setup. Paired devices are "trusted" devices. This means that there is unrestricted access to all services (including services that require authorization and authentication).

A connection can exclude pairing. A device that is connected to the terminal but not paired with it is considered an untrusted device. Content can still be passed to untrusted devices by requiring authorization with each attempt (for example, with the initialization of a file exchange).

Connecting to Other Bluetooth Devices

To connect to other bluetooth devices, you need to perform a device discovery, select a discovered device, and then connect to the selected device. Pairing happens as part of the connection process.

1. Make sure the bluetooth device is in range and set to be discoverable by other bluetooth devices.

2. In the Dolphin Wireless Manager, tap **Menu** > **Bluetooth Settings**.

    OR

    Tap 🪟 > **Settings** > **Bluetooth** 🔵 .

3. Tap **Add new device**. The terminal begins searching for discoverable Bluetooth devices.
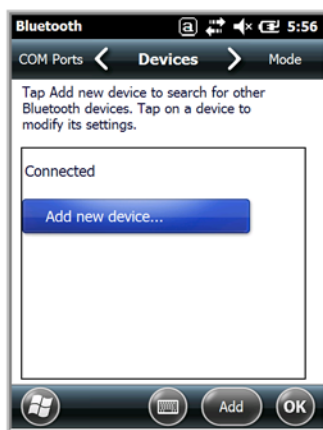
4. Select a device from the list and tap **Next**.

The types of devices in the vicinity of the radio appear in the list of discovered devices.
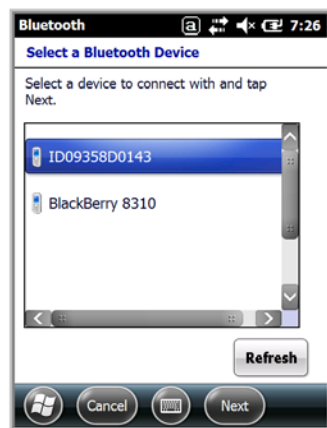
5. You are prompted to enter a passcode.

   • If the device has a specific passcode, enter it in the **Passcode** field and tap **Next**.

     When attempting to connect to a printer or headset with Bluetooth capabilities, the passcode may default to either 1111 or 0000. If there is no default, consult the device literature for the number.

   • If the device does not have a specific passcode, you can enter one in the **Passcode** field and tap **Next** to create a passcode.

6. The Bluetooth radio tries to connect with the device.
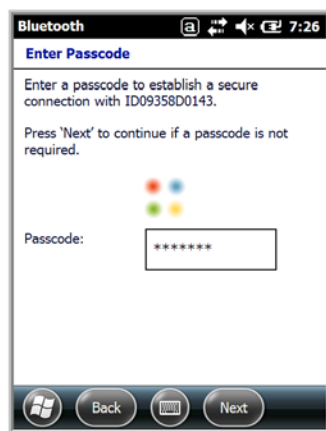
7. If you created a passcode, you will be prompted by the other device to enter the same passcode. Enter the created passcode to establish a paired connection.

   If you entered a device specific passcode, you should not have to do anything on the other device.

8. When the connection is complete, a list of matching and supported services on the device appears. Only the services that are mutually supported on both devices appear in the Partnership Settings window.
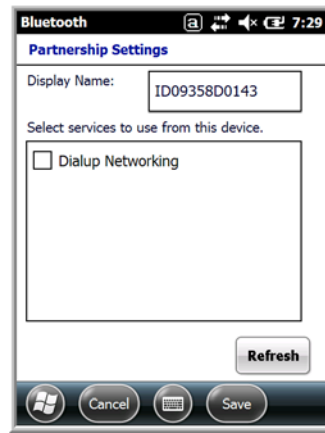
9. Select the services you want to use and tap **Save**.

   The services on the new devices have to be selected or the pairing won't include those services, even though the devices are paired. If services are not selected, you will be continually re-prompted for the passcode from the device.

10. The device appears in the list on the main window.

    If you are connecting to a printer or headset, complete any additional steps required by the device.
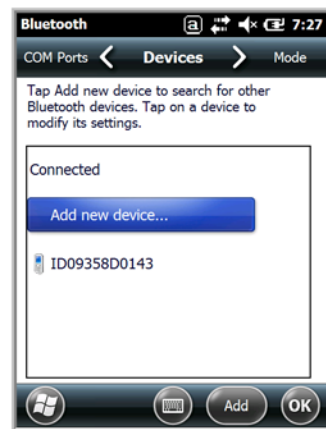
11. After the passcodes have been accepted on both sides, you have a trusted (paired) connection.

Transferring Files

Before attempting to transfer files, make sure the receiving Bluetooth device is in range, set to be discoverable by other devices, and set to receive incoming beams.

1. Tap ⊞ > **File Explorer**.

2. Navigate to the file you want to transfer.

3. Tap and hold on the file and select **Beam File** on the popup menu.
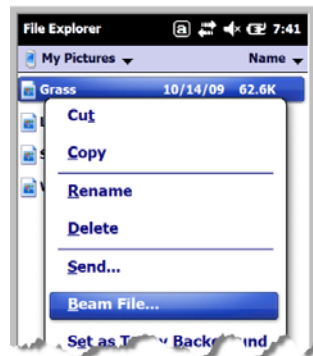
4. The Bluetooth radio begins searching for devices.
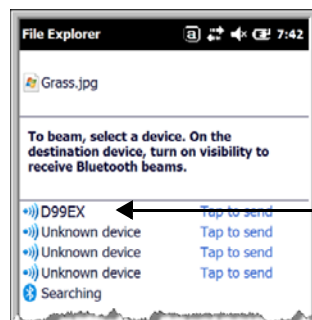
When a Bluetooth device is first found, it appears as an Unknown device; the ⋅)) icon indicates that the device is a Bluetooth device.

As data is retrieved, the device IDs appear in the list.

5. Tap the device to begin sending the selected file.

6. While trying to connect, the selected device reads "Pending".
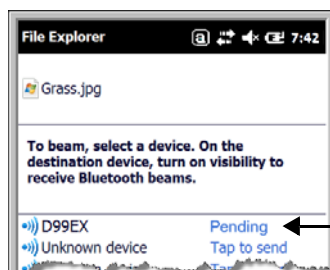
7. When the file is being transferred, the selected device reads "Sending".

To beam, select a device. On the
destination device, turn on visibility to
receive Bluetooth beams.

•))) D99EX   Sending 1/1 ←
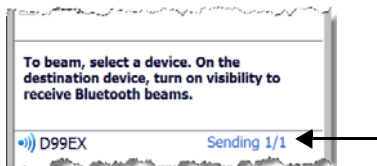
Making the Terminal Discoverable

By default, the Dolphin terminal is not discoverable, which means that the terminal will not be found by other Bluetooth devices.

1. To make the terminal discoverable, tap ⊞ > **Settings** > **Bluetooth** ⬡ .

   *Note: If you are in the Dolphin Wireless Manager, tap **Menu** > **Bluetooth Settings**.*

2. Tap **Mode** on the Horizontal scroll.

3. Select "Make this device visible to other devices**"** and tap **OK**.
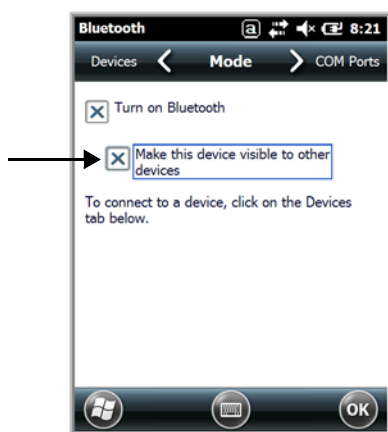
Enabling the Terminal to Receive Incoming Beams

By default, the 7800 terminal is not configured to receive incoming beams from other devices attempting file transfers via the Beam File command. Before initiating a file transfer from another device follow the steps below to enable Beam reception on your Dolphin terminal.

1. Tap ⊞ > **Settings** > **Connections** > **Beam**.

2. Select "Receive all incoming beams."

3. Tap **OK**.

Selecting COM Ports

You can select COM ports 0-9. For more information, see 7800 COM Port Assignment Table on page 8-11.

11

Working with GPS

Overview

The Dolphin 7800 terminal contains an integrated GPS module that allows location tracking of workers and vehicles, providing better utilization of field assets. Optional mapping and navigation software provides turn-by-turn driving directions and location information.

Assisted GPS Support

The operating system software does not inhibit nor explicitly support assisted GPS modes, which usually requires installing a vendor-specific client on the terminal that communicates with the GPS module. This client would then provide the almanac and/or ephemeris data for warm or hot start modes of operation, allowing a lower time to first fix (TTFS). The Client must be configured on the terminal, active, and provide the data to the GPS module through the standard COM port.

Powering the GPS Module

The GPS module powers on automatically when accessed by a software application and powers off automatically when that software application closes. You cannot manually power on and off the GPS module.

Communication Ports

There are two ways to access the GPS module: through the actual COM port (COM7) or the GPS Intermediate Driver. The method you use depends on the software application you are using. If the software application requires the actual COM Port, set the operating system to use COM7. If the software application requires the GPS Intermediate Driver, set the operating system to use the GPS Intermediate Driver.

Selecting the Port

1. Tap > **Settings** > **System** > **External GPS**.

2. In the **GPS program port:** drop-down list, select **COM7** or **GPD1** (the GPS Intermediate Driver) as required by the application.

Note: The GPS program port and hardware port cannot be the same value.

3. Tap **OK** to save.

COM7

COM Port 7 can be set to the following baud rates:

- 4800
- 9600 (Default baud rate. Recommended for optimal performance.)
- 19200
- 38400

Other baud rates are not possible. The baud rate selected on COM7 is the actual baud rate with which the GPS communicates.

GPS Intermediate Driver

When the first user of GPD1 opens the port, the GPS Intermediate Driver opens the COM7 port. The GPS Intermediate Driver allows multiple applications to open GPD1, and the GPS data is broadcast to all open ports.

When the GPSID driver is in use, the COM7 port is allocated to GPSID as READ|WRITE (COM7 is still available for access mode of 0).

For more information about Microsoft's GPS Intermediate Driver, follow this link:
 http://msdn.microsoft.com/en-us/library/ms850332.aspx

GPS Demo

The GPS Demo demonstrates the main functionality of the integrated GPS module. The GPS Demo uses COM7.

To see the GPS Demo, tap > **Demos** > **GPS Demo**.

Dolphin 7800 HomeBase Device (Model 7800-HB)

Overview

The Dolphin 7800 HomeBase (Model 7800-HB) is a charging and communication cradle that supports USB Hi-Speed 2.0v communication, which enables the terminal to interface with the majority of PC-based enterprise systems. The HomeBase also contains an auxiliary battery well that charges a spare Honeywell standard or extended battery pack.

The 7800-HB charger is designed for use with battery standard pack models 7800-BTSC or 7800-BTSCW (Li-ion 3.7 V, 8.9 watt hour) and extended battery pack 7800-BTXC or 7800-BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc., and with Dolphin 7800 model terminals.

⚠ *Warning! The HomeBase is not designed for use in hazardous locations.*

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Unpacking the HomeBase

Open the shipping box and inspect the package to see that the following standard items are included:

• One Dolphin HomeBase, model 7800-HB
• One power supply (see Power on page 12-4)
• One power cord

If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the HomeBase for service or to store the HomeBase while not in use.

Optional Equipment

A standard USB (Type A to B) cable is required when using the HomeBase for communication between the terminal and a host device.

Charging Overview

The base provides power to the intelligent battery charging system in all Dolphin terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery pack installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. The base completes a full charge of the battery pack in the Auxiliary Battery Well (see page 12-2) in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the Guidelines for Battery Pack Use and Disposal on page 3-13.

Communications

Reliable data communications at speeds of up to 480 Mbps can be transmitted by the base through the Hi-Speed USB port.

Note: These bases cannot be physically connected to each other - sometimes referred to as "daisy-chained".

Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds one terminal and features an auxiliary battery well behind the terminal well that can charge a battery pack independently of the terminal well. This means that one base can charge two battery packs: the one installed in the terminal and a spare.

⚠ *We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Parts and Functions

Front Panel
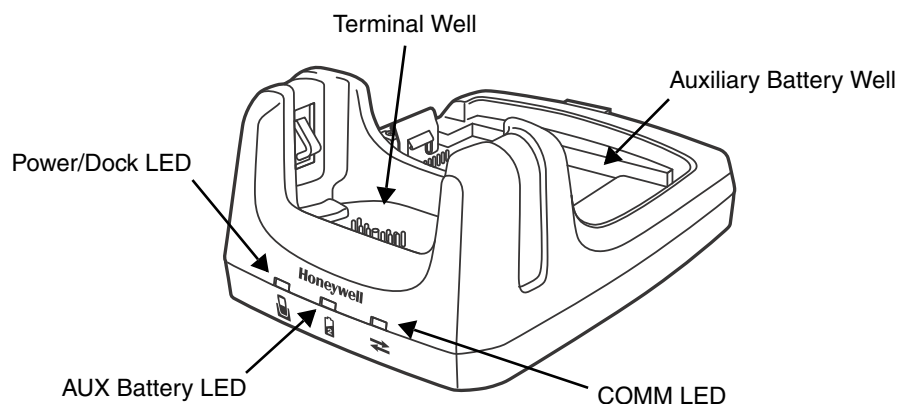
Terminal Well

Place the terminal in this well to communicate with a host device, power the terminal, and charge the installed battery pack. The base completely charges the main battery in a Dolphin terminal in 4 hours for the standard battery or 6 hours for the extended battery. If the host device is a workstation that uses ActiveSync or Windows Device Mobile, synchronization begins immediately.

Auxiliary Battery Well

See Auxiliary Battery Well on page 12-3.

Power/Dock LED

Indicates if power is supplied to the HomeBase and if a terminal is docked properly in the base.

This color	means…
Red	The HomeBase has power but no terminal is docked.
Green	The HomeBase has power and the terminal is properly seated in the base.

AUX Battery LED

Indicates status of the battery charging in the auxiliary battery well; see Back Panel on page 12-3.

This color	means…
Orange	The auxiliary battery is charging.
Green	The auxiliary battery has completed charging and is ready for use.
Red, Flashing	The internal temperature of the auxiliary battery is too hot or there is a battery error. Charge the auxiliary battery in a cooler environment or replace the battery with a new Honeywell battery.

For information about charging a battery in the auxiliary battery well, see page 12-5.

COMM LED

This is the communication LED. It indicates the status of data transfer between the Dolphin terminal and the host device.

This color	means…
Green	A USB Connection is established with the host workstation.

Back Panel

Auxiliary Battery Well

USB Port

DC Power Jack
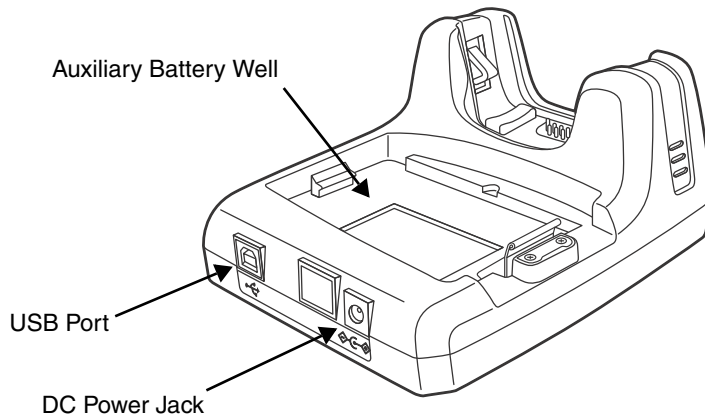
Auxiliary Battery Well

The base enables you to charge an additional battery pack independently of the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. This feature ensures that you can always have a fully-charged battery for your terminal. See Charging a Spare Battery in the Auxiliary Battery Well on page 12-5.

USB Port

This USB port is USB v2.0 Hi-Speed compliant. Using a USB cable, you can connect the base to a host device, such as a workstation. USB communication occurs through Microsoft ActiveSync (v4.5 or higher) or Microsoft Windows Mobile Device Center (WMDC) depending on the host workstation's operating system. When the terminal is seated in the terminal well, it is connected to the host device via the base.

Note: ActiveSync on your Dolphin terminal works with Windows Mobile Device Center on host workstations running Windows Vista or Windows 7 and with ActiveSync on host workstations running Windows XP. For detailed information on ActiveSync and WMDC visit Microsoft's Windows Mobile Web site.

DC Power Jack

See Power on page 12-4.

Bottom Panel

For details on how to mount the HomeBase, see Mounting the HomeBase on page 12-7.

Compliance Label

Serial Number Label
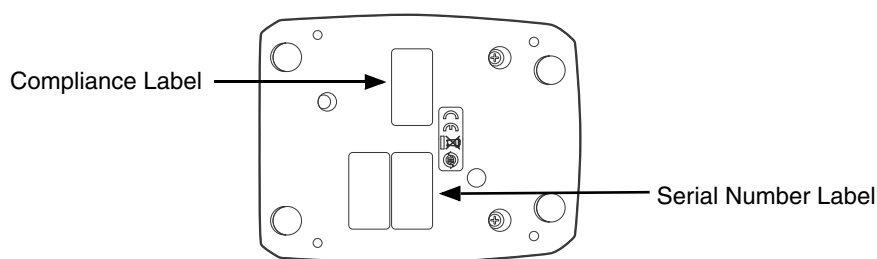
Power

The base requires 12 Volts DC input for communications, battery charging, and power output to the terminal; the power adapter included with the base converts the voltage from the AC power source to 12 Volts DC. Use only a UL listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 3 amps with the device. The operating temperature range is -10° to 50°C (14° to 122°F) Honeywell recommends that you leave the base connected to its power source at all times, so that it is always ready to use.

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Connecting Power to the HomeBase

1. Plug the A/C power cord into the power adapter.

2. Plug the power cable into the power connector on the back of the HomeBase.

3. Plug the A/C power cord into a grounded power source. The base is now powered. The Power/ Dock LED on the HomeBase illuminates solid red to indicate the HomeBase has power and no terminal is docked.

Power Adapter

A/C Power Cord

Power Cable

Charging the Main Battery

The base provides power to the Dolphin terminal and allows the charging of the terminal's main battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery packs, or the base. The base completes a full charge of the main battery pack installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to Power (page 7-15) and Batteries (page 3-12).

To Power a Terminal and Charge its Main Battery

1. Install the battery pack in the terminal; see Install the Main Battery Pack on page 2-1.

2. Verify the base has power. If the Power/Dock LED is not illuminated, see Connecting Power to the HomeBase on page 12-4.

3. Slide the terminal into the terminal well. The Power/Dock LED changes to green. The charging begins immediately if required by the Dolphin terminal.

⚠️ *Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.*

⚠️ *We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Charging a Spare Battery in the Auxiliary Battery Well

The auxiliary battery well located on the back of the base charges a spare battery independently of the terminal well. The Aux Battery LED on the front panel indicates the status of the battery in this well. Charge time is 4 hours for the standard battery pack or 6 hours for the extended battery pack; see Auxiliary Battery Well on page 12-3.

1. Insert the battery at an angle.

    Note: Align the battery contacts with the contacts inside the auxiliary battery well.

2. Snap the battery into place with a hinging motion. The Aux Battery LED lights orange.

3. Use the AUX Battery LED to monitor the charging progress. The LED lights green when the auxiliary battery has completed charging and is ready for use.

    Note: If the AUX Battery LED flashes red, the internal temperature of the battery is too hot or there is a battery error. Charge the auxiliary battery in a cooler environment or replace the battery with a new Honeywell Li-ion battery.
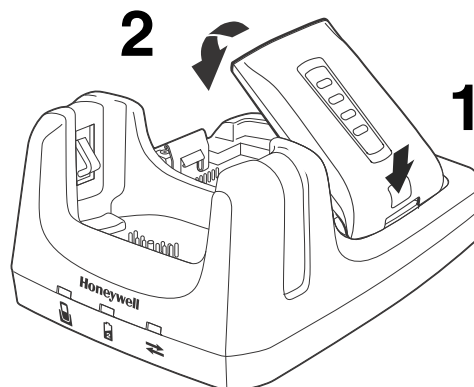
Communication

Dolphin terminals support USB communications out of the box. The base also supports USB communi-cations via the USB port located on the back. The base acts as a USB device by interfacing the USB sig-nals of the Dolphin terminal to the USB of the host workstation. Using a standard USB cable, the base's USB interface allows the Dolphin terminal to communicate with a workstation.

Requirements

- A base powered by a power cable and power adapter cable
- A standard USB communication cable
- A work station running Windows 98 Second Edition, Windows Me, Windows 2000, Windows NT (4.0 SP6 or higher), Windows XP, Windows Vista, or Windows 7.
- ActiveSync (v4.5 or above) or Widows Mobile Device Center on the workstation

Connecting the Communication Cables

1. Connect power to the HomeBase (see Power on page 12-4).

2. Plug the USB communication cable into the back of the base.

3. Connect the communication cable into the back of the workstation.

4. At this point, the hardware is installed and operating. You may need to reboot your workstation to complete the installation process.

Establishing Communication

USB communication with the terminal is usually auto-detected and configured by ActiveSync or Win-dows Mobile Device Center based on the communication cable connected.

Communicating with the Dolphin Terminal

To initiate communications between the Dolphin terminal and peripheral, complete these steps:

1. Insert the Dolphin terminal into the terminal well of the base.

    - The DOCK LED illuminates green. If the DOCK LED does not illuminate, make sure that the terminal is properly seated. You may need to remove and re-insert the terminal.
    - The Dolphin terminal activates; if the power is off, the terminal automatically powers on. If the terminal does not power on, verify that the Honeywell power supply is properly connected to the cradle and plugged into a functioning outlet.
    - If the base is connected to the workstation, the Dolphin terminal automatically opens ActiveSync or the Windows Mobile Device Center to establish a connection.
2. The base can now transfer data between the terminal and the host device. If communication does not occur, check the port connections to ensure that the cradle is correctly configured.

Verifying Communication

You can verify that the USB driver is functioning by watching the COMM LED on the USB base. When the COMM LED illuminates solid green, the base is communicating with the host device.

Note: This base cannot be daisy-chained.

Mounting the HomeBase

Set the base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the base. When choosing a mounting location, bear in mind that the location must allow users' easy access to the Auxiliary Battery Well and the back panel of the HomeBase where the USB port and the power jack are located.

Optional Hardware Mount

On the bottom of the HomeBase there are four mounting holes with a maximum depth of 7 mm that can be used to secure the base to a horizontal surface such as a desktop or workbench using M3 self tapping screws.

Optional Mounting Holes for M3 self tapping screws, Qty. 4. Maximum thread depth of 7 mm.

101 mm
[3.98 in.]

98 mm
[3.86 in.]

90 mm
[3.54 in.]

13
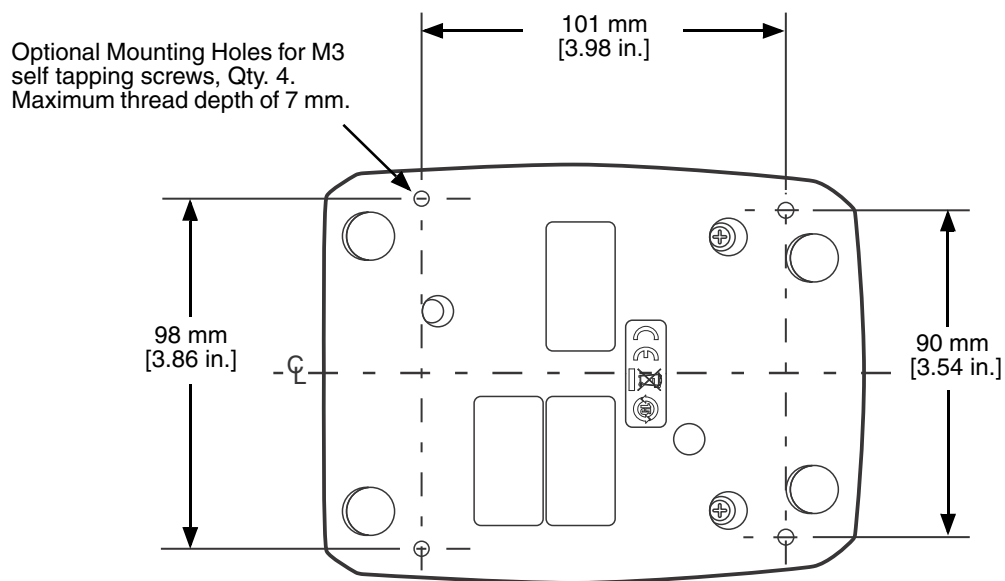
Dolphin 7800 eBase Device (Model 7800-EHB)

Overview

The Ethernet Base (eBase) enables a single Dolphin 7800 computer to communicate with a host device over an Ethernet network.

The 7800-EHB charger is designed for use with standard battery pack model 7800-BTSC or 7800-BTSCW (Li-ion 3.7 V, 8.9 watt hour) and extended battery pack model 7800-BTXC or 7800-BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc. and with Dolphin 7800 model terminals.

⚠ **Warning!** *The eBase is not designed for use in hazardous locations.*

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Unpacking the eBase

Open the shipping box and inspect the package to see that the following standard items are included:

*   One Dolphin eBase Ethernet cradle, model 7800-EHB
*   One power supply (see Power on page 13-4)
*   One power cord

You will also need to provide a standard CAT-5 Ethernet network cable. These items are needed to set up and operate the eBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative.

Keep the original packaging in case you need to return the eBase for service or to store the eBase while not in use.

Charging Overview

The base provides power to the intelligent battery charging system in all Dolphin terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery pack installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. The base completes a full charge of the battery pack in the Auxiliary Battery Well (see page 13-2) in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the Guidelines for Battery Pack Use and Disposal on page 3-13.

⚠ *We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds one terminal and features an auxiliary battery well behind the terminal well that can charge a battery pack independently of the terminal well. This means that one base can charge two battery packs: the one installed in the terminal and a spare.

Parts and Functions
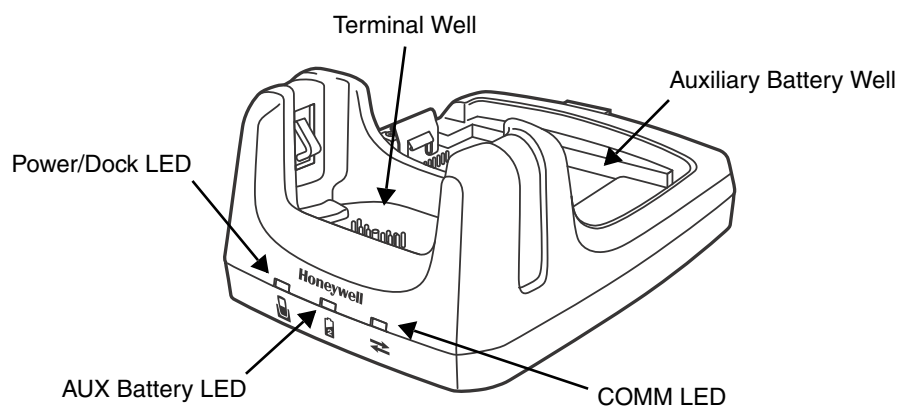
Front Panel

Terminal Well

Auxiliary Battery Well

Power/Dock LED

AUX Battery LED

COMM LED

Terminal Well

Place the terminal in this well to communicate with a host device, power the terminal, and charge the installed battery pack. The eBase completely charges the main battery in a Dolphin terminal in 4 hours for the standard battery or 6 hours for the extended battery.

Auxiliary Battery Well

See Auxiliary Battery Well on page 13-3.

Power/DOCK LED

Indicates if power is supplied to the eBase and if a terminal is docked properly in the base.

This color	means…
Red	The eBase has power but no terminal is docked.
Green	The eBase has power and the terminal is properly seated in the base.

AUX Battery LED

The AUX Battery LED indicates the status of the battery charging in the auxiliary battery well; see Back Panel on page 13-3.

This color	means…
Orange	The auxiliary battery is charging.
Green	The auxiliary battery has completed charging and is ready for use.

This color	means…
Red Flashing	The internal temperature of the auxiliary battery is too hot or there is a battery error. Charge the auxiliary battery in a cooler environment or replace the battery with a Honeywell battery.

COMM LED ⇄

The COMM LED indicates the status of data transfer between the Dolphin terminal and the eBase.

Ethernet Communication

When the Dolphin terminal is docked:

This color	and status	means…
Green	Solid	A connection has been established between the Dolphin terminal and the Ethernet.
Green	Flashing	Data transfer in progress.

USB Communication

When the Dolphin terminal is docked:

This color	and status	means…
Red	Solid	A USB connection has been established between the Dolphin terminal and the host workstation.

Back Panel

Auxiliary Battery Well

Green LED

USB Port

RJ45 Ethernet Port

Yellow LED

DC Power Jack
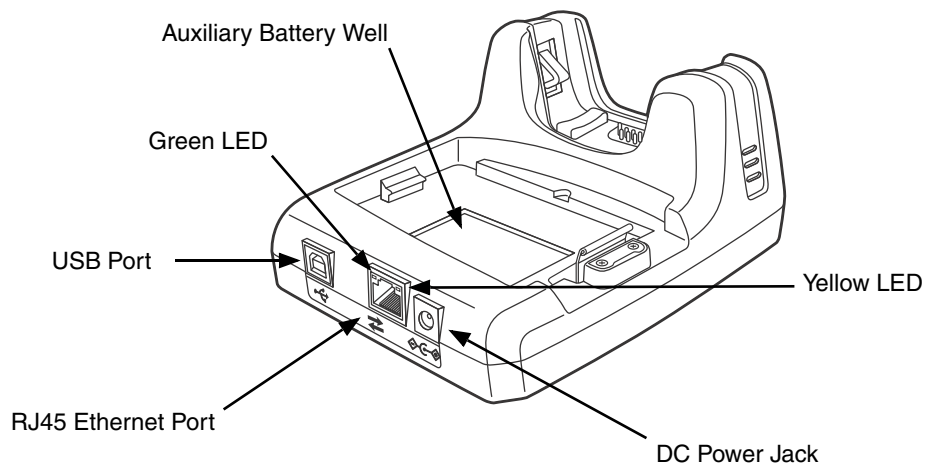
Auxiliary Battery Well

The eBase enables you to charge an additional battery pack independently of the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. This feature ensures that you can always have a fully charged battery for your terminal.

USB Port

> This USB port is USB v2.0 Hi-Speed compliant. Using a USB cable, you can connect the eBase to a USB compliant device to facilitate USB communication to and from the terminal. USB communication occurs through Microsoft ActiveSync (v4.5 or higher) or Microsoft Windows Mobile Device Center depending on the host workstation's operating system. When the terminal is seated in the terminal well, it is connected to the peripheral device via the eBase.
>
> *Note: ActiveSync on your Dolphin terminal works with Windows Mobile Device Center on host workstations running Windows Vista or Windows 7 and with ActiveSync on host workstations running Windows XP. For detailed information on ActiveSync and Windows Mobile Device Center visit Microsoft's Windows Mobile Web site.*

RJ45 Ethernet Port

> Use a standard CAT-5 Ethernet cable; you can connect the ebase to an Ethernet-compliant device to facilitate Ethernet communication to and from the terminal.

This color	and status	means…
Green	Flashing	Data transfer in progress.
	Solid	A connection has been established between the Dolphin terminal and the Ethernet.
Yellow	Solid	Ethernet is connected at 100T.
	Off	Ethernet is connected at 10T.

DC Power Jack

> See Power, below.

Bottom Panel

For details on how to mount the eBase, see Mounting the eBase on page 13-7.
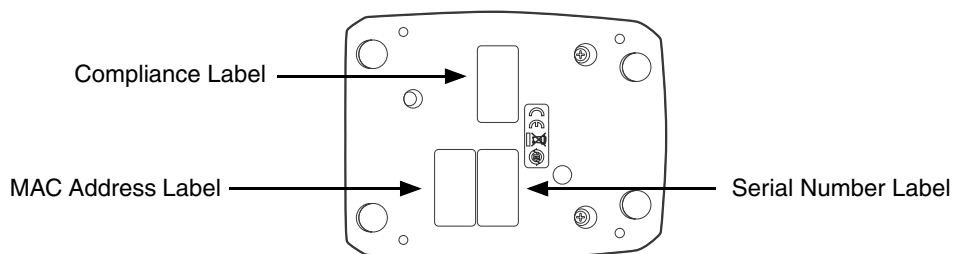
Compliance Label

MAC Address Label

Serial Number Label

Power

The terminal requires 12 Volts DC input for communications and battery charging; the power adapter on the power cable converts the voltage from the power source to 12 Volts DC. Use only a UL listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 3 amps with the device. The operating temperature range is -10° to 50°C (14° to 122°F). Honeywell recommends that you leave the eBase connected to its power source at all times, so that it is always ready to use.

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Connecting Power to the eBase

1. Plug the A/C power cord into the power adapter.

2. Plug the power cable into the power connector on the back of the eBase.

3. Plug the A/C power cord into a grounded power source. The Power/Dock LED on the eBase illuminates solid red to indicate the eBase has power and no terminal is docked.

Power Adapter

A/C Power Cord

Power Cable

Charging the Main Battery

The base provides power to the Dolphin terminal and allows the charging of the terminal's main battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery packs, or the base. The base completes a full charge of the main battery pack installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to Power (page 7-15) and Batteries (page 3-12).

To Power a Terminal and Charge its Main Battery

1. Install the battery pack in the terminal; see Install the Main Battery Pack on page 2-1.

2. Verify the base has power. If the Power/Dock LED is not illuminated, see Connecting Power to the eBase on page 13-5.

3. Slide the terminal into the terminal well. The Power/Dock LED changes to green. Battery charging begins immediately if required by the Dolphin terminal.

⚠ *Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.*

⚠ *We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Charging a Spare Battery in the Auxiliary Battery Well

The auxiliary battery well located on the back of the base charges a spare battery independently of the terminal well. The Aux Battery LED on the front panel indicates the status of the battery in this well. Charge time is 4 hours for the standard battery pack or 6 hours for the extended battery pack; see Auxiliary Battery Well on page 13-3.

1. Insert the battery at an angle.

   Note: Align the battery contacts with the contacts inside the auxiliary battery well.

2. Snap the battery into place with a hinging motion. The Aux Battery LED lights orange.

3. Use the AUX Battery LED to monitor the charging progress. The LED lights green when the auxiliary battery has completed charging and is ready for use.

   Note: If the AUX Battery LED flashes red, the internal temperature of the battery is too hot or there is a battery error. Charge the auxiliary battery in a cooler environment or replace the battery with a new Honeywell Li-ion battery.

Communication

Software Requirements

Before you connect the Dolphin terminal to the eBase, make sure you have the most current software installed. To check the terminal's system information, tap ⊞ > **Power Tools** > **SysInfo**.

Applications on the Dolphin Terminal

Applications running on the Dolphin terminal when it is connected to the eBase should be designed specifically for a partially connected network. For more details, please refer to the *Best Practices for Partially Connected Networks* document available at www.honeywellaidc.com.

Establishing Ethernet Communication

Connecting the Dolphin Terminal to the eBase

By default, the Dolphin terminal is configured to obtain IP addresses automatically via DHCP server. This means that in most cases you would simply plug-and-play the unit.

1. Verify the base has power. If the Power/Dock LED is not illuminated, see Connecting Power to the eBase on page 13-5.

2. Plug the CAT-5 Ethernet cable into the RJ45 connector on the back of the eBase.

3. Plug the Ethernet cable into the network.

4. Insert the Dolphin into the terminal well. The DOCK LED for the well changes from red to green and the connection icon on the Dolphin's title bar changes from ⇄ to ⇄.

   Note: Instead of using the default for DHCP assigned IP addresses, the Dolphin terminal can use a statically assigned IP address. See standard Microsoft Windows Mobile documentation for how to assign a static IP address to a network adapter. In this case, set a static IP address for the adapter named "SMC95001 USB2.0 FAST Ethernet Drive".

Displaying the eBase and Terminal IP Address

Once the Dolphin terminal has been successfully connected to the eBase, the terminal uses the eBase IP address. This IP address can be used by any application on the Dolphin terminal.

1. Tap > **Power Tools > Network Utilities > IPConfig**.

2. Change the **Adapter** to SMC95001.

3. On the Input tab, tap the **Display full configuration** button.

4. The Dolphin terminal retrieves and displays the IP configuration for the entire terminal and eBase. Locate the **IpAddress** field in the IP configuration list.

Establishing USB Communication

Dolphin terminal's support USB communication out of the box. The eBase also supports USB communications using the USB port located on the back panel of the eBase. The eBase acts as a USB device by interfacing the USB signals of the Dolphin terminal to the USB of the host workstation. Using a standard USB cable, the ebase's USB interface allows the Dolphin terminal to communicate with a host workstation.

Setting Up and Connecting the Dolphin Terminal to the eBase

1. Verify the base has power. If the Power/Dock LED is not illuminated, see Connecting Power to the eBase on page 13-5.

2. Plug the USB communication cable into the USB port on the back of the eBase.

   Note: The Dolphin terminal should always be removed from the eBase when connecting or disconnecting the USB cable.

3. Connect the other end of the USB cable to the host workstation.

4. Insert the Dolphin terminal in the eBase terminal well. The Power/Dock LED changes to green and the COMM LED illuminates red.

5. The Dolphin terminal activates and automatically opens ActiveSync to establish a connection.

6. The connection icon in the Dolphin's navigation bar changes from to it indicate a successful connection. The eBase can now transfer data between the terminal and the host device.

Mounting the eBase

Set the eBase on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the eBase.

When choosing a mounting location, bear in mind that the location must allow users' easy access to the Auxiliary Battery Well and the back panel of the HomeBase where the USB port, Ethernet port, and the power jack are located.

Optional Hardware Mount

On the bottom of the HomeBase there are four mounting holes with a maximum depth of 7 mm that can be used to secure the base to a horizontal surface such as a desktop or workbench using M3 self tapping screws.

Optional Mounting Holes for M3 self tapping screws, Qty. 4. Maximum thread depth of 7 mm.

101 mm [3.98 in.]

98 mm [3.86 in.]

90 mm [3.54 in.]

14
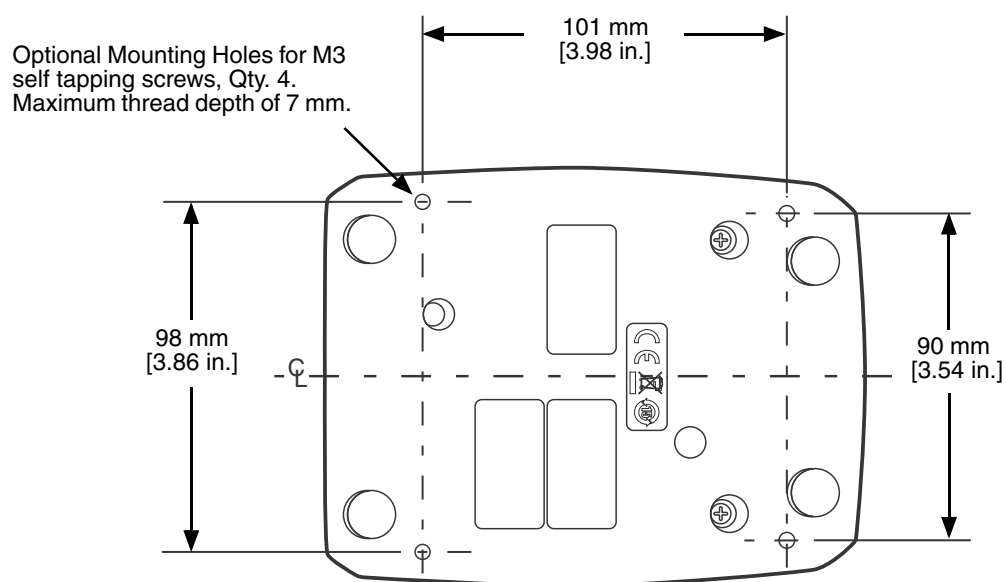
Dolphin 7800 Mobile Base Device (Model 7800-MB)

Overview

The Dolphin Mobile Base charging cradle is designed specifically for in-premise and in-transit data collection applications. The base features a mounting bracket and a cigarette lighter adapter to adapt it to your environment.

The 7800-MB charger is designed for use with Dolphin 7800 model terminals using standard battery pack model 7800-BTSC or 7800-BTCW (Li-ion 3.7 V, 8.9 watt hour) or extended battery pack model 7800-BTXC or 7800-BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc.

⚠ *Warning!* *The Mobile Base is not designed for use in hazardous locations.*

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Charging Overview

The base provides power to the intelligent battery charging system in all terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery pack in 4 hours for the standard battery pack or 6 hours for the extended battery pack.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the Guidelines for Battery Pack Use and Disposal on page 3-13.

⚠ *We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Convenient Storage

Intelligent battery charging makes the base a safe and convenient storage receptacle for your Dolphin terminal.

Mobile Base Components

Terminal Well

Mounting Back Plate

Power Adapter

Terminal Locking
Lever

Adapter Power LED
(not in view)
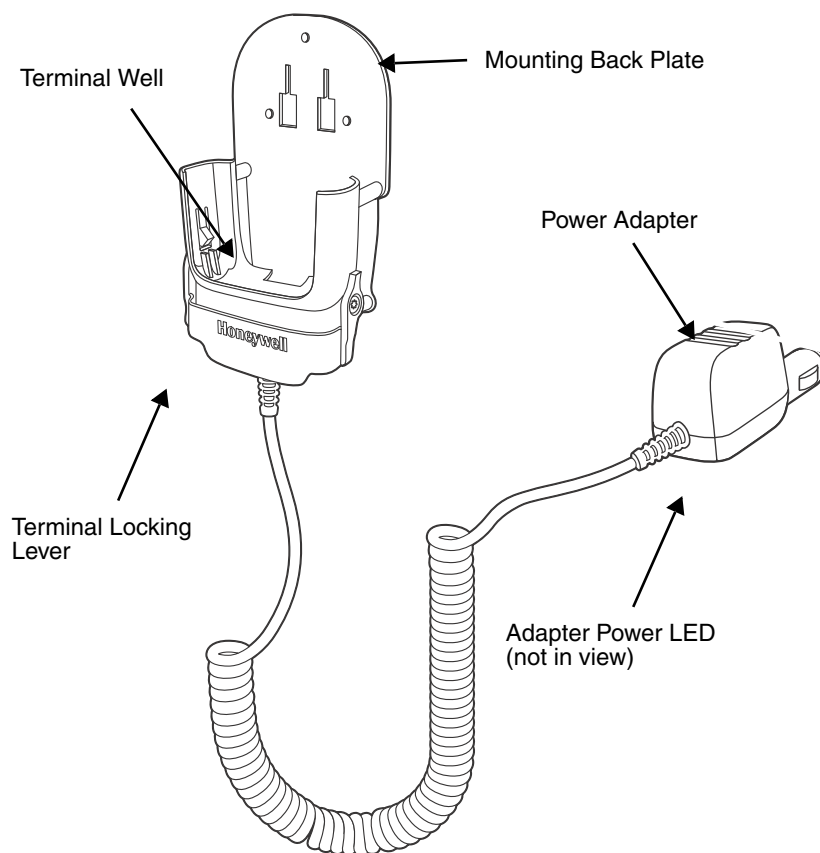
Mounting Back Plate

Used to mount the base to a fixed location.

Terminal Locking Lever

The mobile base has a locking lever on the front. When the lever is in the down position the terminal in locked in the base. To unlock the terminal push the lever up.

Terminal Well

Place the terminal in this well to charge the main battery pack.

Power Adapter

The mobile charger is equipped with a car adapter cable that can be connected to a vehicle cigarette lighter outlet.

UL listed power supply
Input: 9V-24VDC, 3.2A
Output: 5VDC 3000mA

⚠ *Verify that the power source is always within the specified range and observe correct input voltage polarity. An improper input voltage range or reverse polarity could damage the power conversion circuitry.*

Back Panel and Mounting Brackets
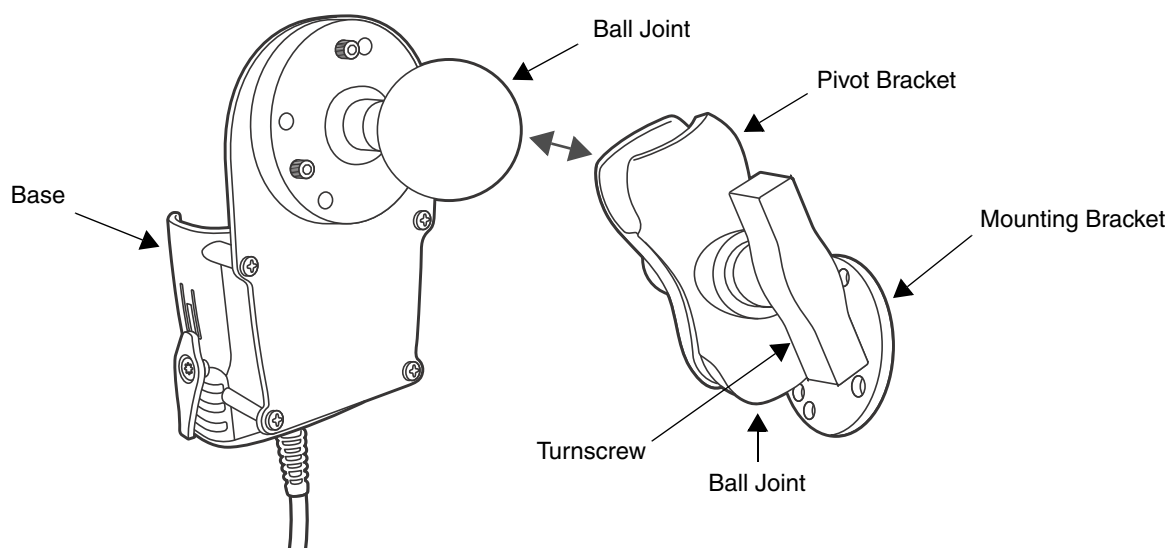
Ball Joints

There are two ball joints: one that is attached to back of the base and one on the mounting bracket. Both ball joints are inserted into the bracket and secured to mount the base.

Pivot Bracket

The bracket contains the turnscrew and two slots. Ball joints are inserted into each slot and secured with the turnscrew.

Turnscrew

The turnscrew is located on the side of the pivot bracket. Rotate the turnscrew to secure or loosen the ball joint slots.

Mounting Bracket

The mounting bracket is what you attach to the mounting surface. It is comprised of a ball joint and flat disk. The disk contains drill holes you use to secure the base to the mounting surface.

Mounting

The adjustable mounting bracket holds the terminal securely in place and gives the user a variety of options for mounting the base.

Safety Precautions

Honeywell is not responsible for any damages caused to you, your vehicle, or other individuals due to the installation of the Dolphin Mobile mount.

Follow these safety precautions when mounting the mobile base:

⚠ Never drill into a surface in your vehicle without first consulting a mobile installation professional experienced with your vehicle type to avoid damaging the vehicle's safety features, gas tank, electrical system or other sensitive vehicle components.

⚠ Do not install the Mobile base in an air bag deployment zone. Honeywell assumes no responsibility of liability for injury or death because of car crashes and/or air bag deployment.

⚠ Do not mount the base in a location where it prevents safe operation of the vehicle and/or impedes the vehicle operator's field of view.

⚠ Do not mount the base in a location where the connectors on the bottom panel of the base are not easily accessible. Be sure to leave enough room for unrestricted cable connections.

⚠ The Mobile base is intended for use in an enclosed space protected from the elements. Do not mount the Mobile base on external vehicle surfaces.

⚠ Select a mounting surface that is flat and smooth like the console area in the vehicle located between the seats.

Installation

Mounting hardware is not included. You must provide the appropriate hardware for your particular application and vehicle type. **To ensure a safe installation, consult a mobile installation professional experienced with your vehicle type.**

1. Using the bracket as a template, mark the locations for the mounting screws.

2. Drill the appropriate size pilot holes in the mounting surface.

3. Secure the mounting bracket to the mounting surface using the appropriate screw type for your application and vehicle type.

4. Loosen the turnscrew.

5. Insert the ball joint of the mounting bracket to the back of the bracket.

6. Insert the ball joint on the back of the base into the other side of the bracket.

7. Tighten the turnscrew to secure both ball joints.
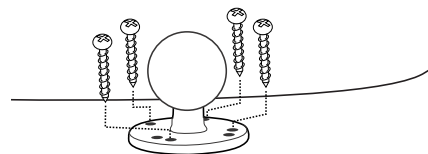
Charging the Main Battery

The mobile base provides power to the Dolphin and allows charging of the main batteries in the terminal. The main battery charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that terminal may be seated in the base indefinitely without damage to the terminal, battery pack, or the base.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to Power (page 7-15) and Batteries (page 3-12).

To Power a Terminal and Charge its Main Battery

⚠ *Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.*

⚠ *We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

1. Install the main battery pack in the terminal; see Install the Main Battery Pack on page 2-1.

2. Plug the power adapter into the vehicle power outlet (e.g., cigarette lighter outlet).

3. Lift the base locking latch up.

4. Slide the Dolphin into the terminal well and lower the locking latch. Charging begins immediately if required by the Dolphin terminal.

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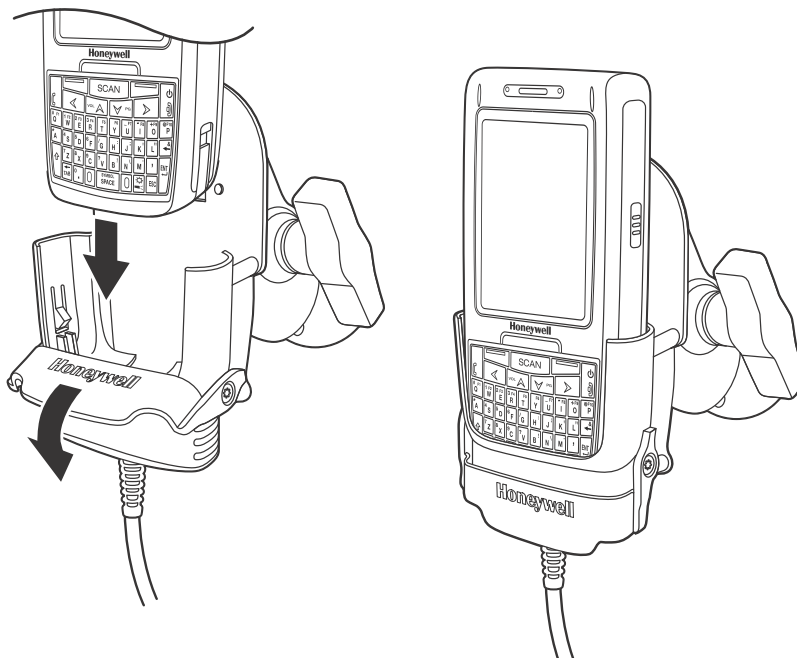
Dolphin 7800 ChargeBase Device (Model 7800-CB)

Overview

The 7800 ChargeBase is a 4-slot charging cradle that can power 4 Dolphin terminals, and charge their main batteries in 4 hours for the standard battery or 6 hours for the extended battery.

The 7800-CB charger is designed for use with Dolphin 7800 model terminals using one of the following battery pack models: standard battery pack model 7800-BTSC (Li-ion 3.7 V, 8.9 watt hour), extended battery pack model 7800-BTXC, or extended pack model 7800BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc.

⚠ *Warning! The ChargeBase is not designed for use in hazardous locations.*

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Unpacking the ChargeBase

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin ChargeBase, model 7800-CB
- One power supply (see Power on page 15-3)
- One power cord

These items are needed to operate the ChargeBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the ChargeBase for service or to store the ChargeBase while not in use.

Charging Overview

The base supplies power to the intelligent battery charging system in all Dolphin terminals, which senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge.

As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for the battery type. The process monitors changes in temperature, current, and voltage. The main battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the Guidelines for Battery Pack Use and Disposal on page 3-13.

Convenient Storage

Intelligent battery charging makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base can hold up to 4 Dolphin terminals. Each charging well charges each terminal independently of the other wells.

⚠ *We recommend use of Honeywell Li-Ion battery pack. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Parts and Functions

Front Panel

Terminal Wells (Qty. 4)

Power/Dock LED (Qty. 4)

Charge LED (Qty. 4)
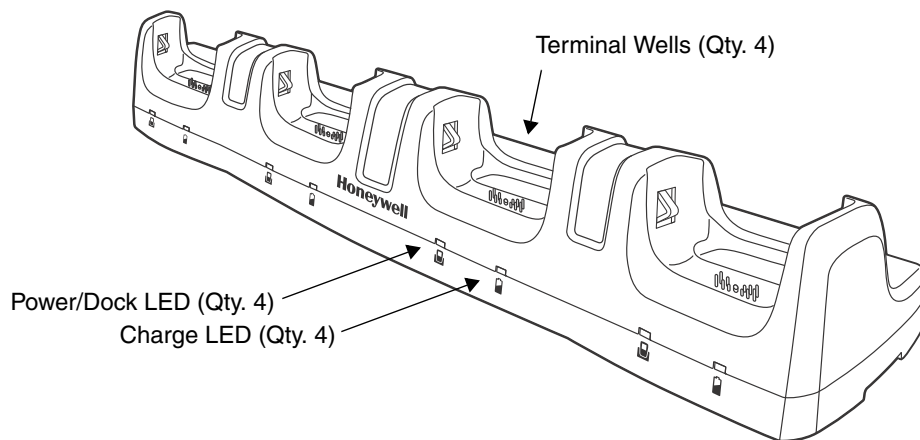
Terminal Wells

The base contains four terminal wells. Each well has its own dedicated Power/Docking LED and Charging LED indicator.

Power/Dock LEDs

The Power/Dock LED indicates if the ChargeBase has power and if the terminal is properly seated in the terminal well. Each terminal well has its own dedicated Power/Dock LED.

This color	means…
Red	The ChargeBase has power but no terminal is docked.
Green	The ChargeBase has power and the terminal is properly seated in the well facilitating communication between the base and terminal

Charge LEDs

Each terminal well has a dedicated Charge LED located on the front of the base. When a Dolphin is docked in a terminal well, the Charge LED illuminates green to indicate power is being applied to the Dolphin. The Battery Icon in the Dolphin window 🔋 indicates the terminal is running on external power. If a battery pack is installed, the battery is charging in the background.

When the Dolphin is removed from the base, the battery icon indicates the charge level of the main battery pack, see Icons in the Title Bar on page 2-5. For additional information on how to check the power levels of the main battery pack and the backup battery, while the terminal is docked, see Checking Battery Power on page 3-15.

For details on how to charge the terminal using the ChargeBase, see Charging the Main Battery on page 15-4.

Back Panel

Power Supply Connector
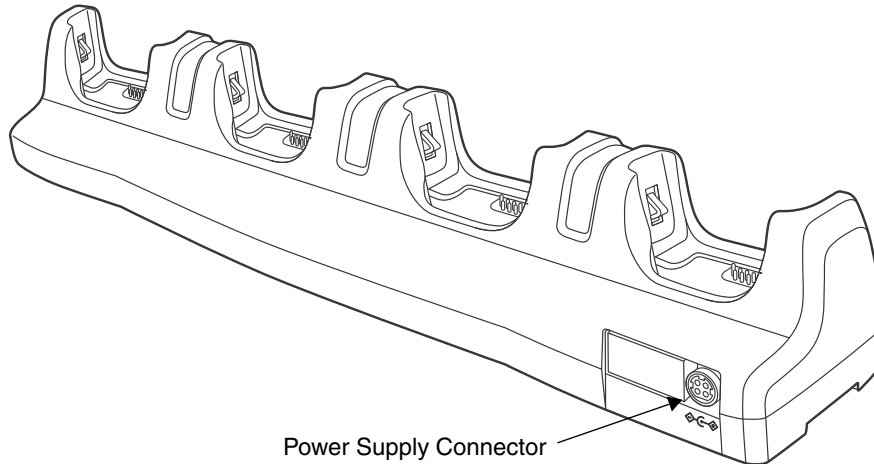
Power Supply Connector

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector.

Power

The terminal requires 12 Volts DC input for battery charging; the power adapter on the power cable converts the voltage from the power source to 12 volts DC. Use only a UL Listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 8.5 amps with the device. The operating temperature range is -10° to 45°C (14° to 113°F).

Honeywell recommends that you leave the ChargeBase connected to its power source at all times, so that it is always ready to use.

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Connecting Power to the ChargeBase

1. Plug the A/C power cord into the power adapter.

2. Plug the power connector cable into the power connector on the back panel of the ChargeBase.

3. Plug the A/C power cord into a standard wall outlet. The LED on the Power Adapter illuminates to indicate power.

4. All of the Power/Dock LEDs illuminate red to indicate the base has power. Terminal wells with properly docked Dolphins indicate power with a green LED.

5. The base is ready to begin charging terminals.

A/C Power Cord

LED

Power Adapter

Power Connector Cable
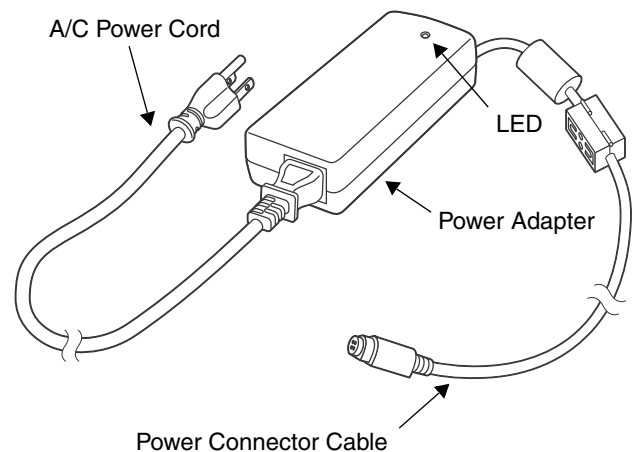
Charging the Main Battery

The base provides power to the Dolphin terminal(s) and allows charging of the main batteries in the terminals. The main battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be seated in the base indefinitely without damage to the terminals, battery packs, or the base.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to Power (page 7-15) and Batteries (page 3-12).
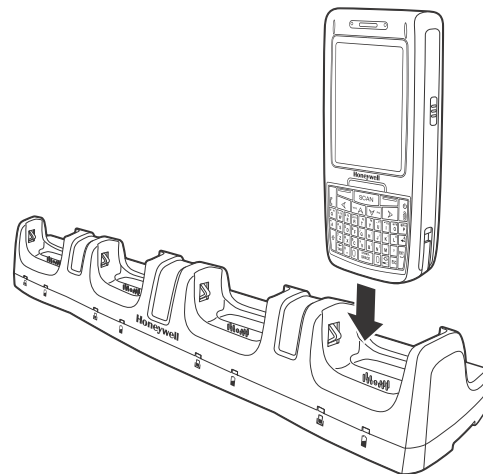
To Power a Terminal and Charge its Main Battery

1. Install the main battery pack in the terminal; see Install the Main Battery Pack on page 2-1.

2. Verify the base has power. If the Power/Dock LEDs are not illuminated, see Connecting Power to the ChargeBase on page 15-3.

3. Slide the Dolphin terminal into one of the four terminal wells. The Power/Dock LED for the well changes to green. Charging begins immediately if required by the Dolphin terminal.

⚠ *Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.*

⚠ *We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Mounting the ChargeBase

This base should be mounted to a dry, stable surface. When choosing a location, always bear in mind that:

• The mounting location must allow users easy access to the power connector.
• The base should be oriented so that users can easily see the LEDs.

Bottom Panel

DIN Rail Slot

Rubber Feet, Qty. 8

Mounting Holes for Wall Mount Bracket Hardware, Qty. 4

Desk Mounting

The DIN Rail (7.5 X 35 mm) slot on the bottom panel enables secure mounting on a horizontal surface.

Hardware Required

- 3/16 in. dia x 5/8 in. long pan head screw
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick
- 3/16 in. dia nut

Installing the DIN Rail

1. Slide the DIN Rail into the DIN Rail slot on the bottom panel of the base.

2. Turn the base and DIN Rail right side up.

3. Then, using the appropriate nuts and bolts, secure the DIN Rail to a stable, flat horizontal surface.

DIN Rail (7.5 X 35 mm)

Wall Mounting

The optional wall mount bracket enables secure mounting of the base on a vertical surface. The wall mount bracket can be used in conjunction with the DIN rail but does not require the DIN Rail for use.

Hardware (Provided)

- M3 x 9 mm self-tapping screws, #2 Phillips, Qty. 4
- 3/8 in. x 4 in. round head toggle bolt, 2-5/8 in. usable length, Qty. 4
- 3/8 in. x 2 1/2 in. length Hex Head Lag Screw, Qty. 4

Tools Required

- Drill
- 7/8 in. Drill Bit (for hollow wall installations) or
  1/4 in. Drill Bit (for wood stud installation)
- Phillips Screw Driver

Hollow Wall Installation

1. Drill four pilot holes in the wall using a 7/8 in. drill bit.

2. Slide the bolt through the wall bracket, and thread the toggle nut onto the bolt.

3. Press the ends of the toggle nut together, and insert the bolt/nut into the pilot hole until the nut clears inside wall surface. The toggle nut should spring open preventing the screw from being removed.

4. Repeat steps 2 and 3 for each of the remaining mounting holes.

5. Tighten all four bolts to secure the bracket to the wall.

6. Once the bracket is installed, secure the base to the wall bracket, see Securing the Base to the Wall Bracket for detailed instructions.

Wood Stud Installation

1. Drill four pilot holes in the wall/wood stud using the 1/4 in. drill bit.

2. Secure the bracket to the wall using the four Hex Head Lag Screws provided.

3. Once the bracket is installed, secure the base to the wall bracket, see Securing the Base to the Wall Bracket for detailed instructions.

Securing the Base to the Wall Bracket

You can secure the base to the wall bracket by using the self tapping screws provided or you can use the optional DIN Rail.

To secure the base using the self tapping screws:

1. Position the base on the wall bracket, as shown.

2. Secure the base to the bracket using the four M3 x 9 mm self-tapping screws.

To secure the base using the optional DIN Rail:

Hardware Required

• DIN Rail, Qty. 1
• 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
• 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 2
• 3/16 in. dia nut, Qty. 2

1. Position the DIN Rail on the wall bracket, as shown below.

2. Slide the screw through the slot on the DIN Rail and the mounting hole in the bracket.

3. Slide the washer onto the screw and tighten the nut to secure the assembly.

4. Remove the rubber feet on the bottom of the ChargeBase.

5. Slide the base onto the DIN Rail using the slot on the bottom of the base.

16
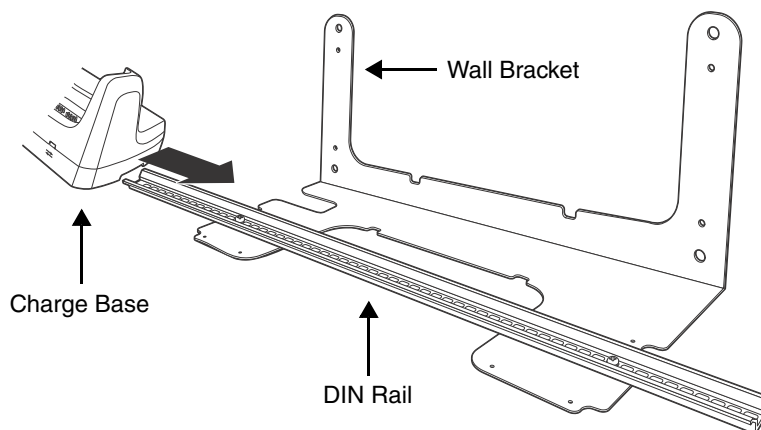
Dolphin 7800 Net Base Device (Model 7800-NB)

Overview

The Net Base enables up to four Dolphin 7800 mobile computers to communicate with a host device over an Ethernet network. In addition, the Net Base provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, eBase, or another Net Base.

The 7800-NB charger is designed for use with Dolphin 7800 model terminals using standard battery pack model 7800-BTSC (Li-ion 3.7 V, 8.9 watt hour) or extended battery pack model 7800-BTXC (Li-ion 3.7 V, 14.8 watt hour), manufactured for Honeywell International Inc.

⚠ **Warning!** *The Net Base is not designed for use in hazardous locations.*

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Unpacking the Net Base

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin Net Base Ethernet cradle, model 7800-NB
- One power supply (see Power on page 16-4)
- One power cord

You will also need to provide a standard CAT-5 Ethernet network cable. These items are needed to set up and operate the Net Base. If any items are missing or anything appears to be damaged, contact your Customer Account Representative.

Keep the original packaging in case you need to return the Net Base for service or to store the Net Base while not in use.

Charging Overview

The base supplies power to the intelligent battery charging system in all Dolphin terminals, which senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge.

As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for the battery type. The process monitors changes in temperature, current, and voltage. The main battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery.

Convenient Storage

Intelligent battery charging makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base can hold up to 4 Dolphin terminals. Each charging well charges each terminal independently of the other wells.

⚠ *We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Parts and Functions

Front Panel

Terminal Wells (Qty. 4)

Power/Dock LED (Qty. 4)
COMM LED (Qty. 4)
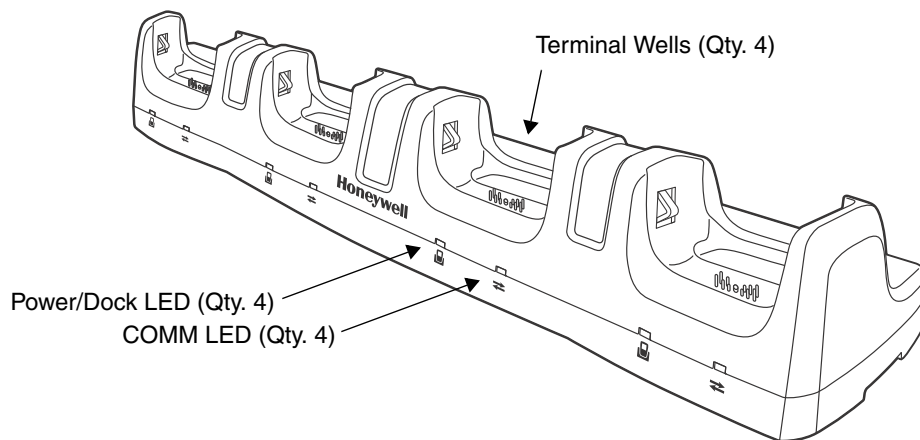
Terminal Wells

The Net Base contains four terminal wells. Each well has its own dedicated Power/Dock LED and COMM LED indicator.

Place the Dolphin terminal in any one of the four wells to communicate with a host device, power the terminal, and charge the installed battery pack. The Net Base completely charges the main battery in a Dolphin terminal in 4 hours for the standard battery or 6 hours for the extended battery.

Power/DOCK LED 🔋

Indicates if power is supplied to the Net Base and if a terminal is docked properly in the terminal well. Each terminal well has its own dedicated Dock LED.

This color	means…
Red	The Net Base has power but no terminal is docked.
Green	The Net Base has power and the terminal is properly seated in the base.

COMM LED ⇄

The COMM LED indicates the status of connection and data transfer between the Dolphin terminal and the Net Base. Each terminal well has its own dedicated COMM LED.

When the Dolphin terminal is docked:

This color	and status	means…
Green	Solid	A connection has been established between the Dolphin terminal and the Net Base.
Green	Flashing	Data transfer in progress.

Note: The COMM LED does not necessarily indicate the Net Base and terminal are connected to a valid Ethernet link. For more information, see RJ45 Ethernet Ports on page 16-3.

Back Panel

Green LED (Qty. 1 Per Port)

Yellow LED (Qty. 1 Per Port)

Port 1: 10/100Mbps RJ45 Ethernet Port

Port 2: 100Mbps Only RJ45 Ethernet Port
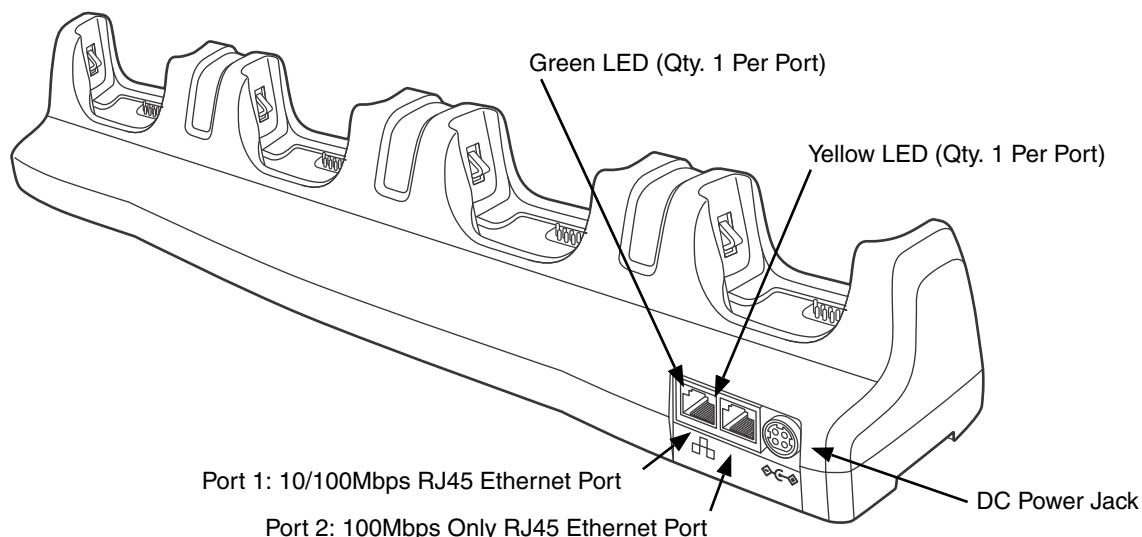
DC Power Jack

DC Power Jack

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector, see Power on page 16-4.

RJ45 Ethernet Ports

The Net Base contains two RJ45 Ethernet ports. You can connect the Net Base to an Ethernet-compliant device to facilitate Ethernet communication to and from the terminal by plugging a standard CAT-5 Ethernet cable into one of the two Ethernet ports provided. The second RJ45 Ethernet port can be used for connection to an additional device such as a printer, workstation, eBase, or another Net Base.

Note: The Net Base does not use a Spanning Tree Protocol (STP). When both RJ45 Ethernet ports are used, do not connect both Net Base interfaces to the same layer 2 LAN.

Note: Ethernet Port 2 only supports 100Mbps Ethernet connections. Plugging in a 10Mbps connection into Port 2 may cause other ports to stop working. For 10Mbps connections use Ethernet Port 1.

Each Ethernet port has a dedicated green and yellow status LED.

This color	and status	means…
Green	Flashing	Data transfer is in progress.
	Solid	A connection has been established between the Net Base and the Ethernet.
Yellow	Solid	Ethernet is connected at 100T.
	Off	Ethernet is connected at 10T.

Note: The terminal and Ethernet link must be set up properly to allow the terminal to communicate to other devices and/or the Internet. For more information, see Connecting the Dolphin Terminal to the Net Base on page 16-6.

Bottom Panel

For details on how to mount the Net Base, see Mounting the Net Base on page 16-6.
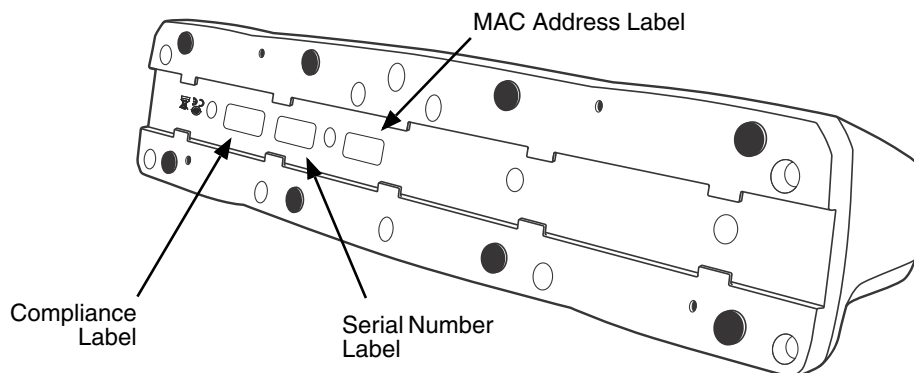
MAC Address Label

Compliance
Label

Serial Number
Label

Power

The terminal requires 12 Volts DC input for communications and battery charging; the power adapter on the power cable converts the voltage from the power source to 12 volts DC. Use only a UL Listed power supply with output rated 12VDC, 8.5A with the device, which has been qualified by Honeywell. The operating temperature range is -10° to 45°C (14° to 113°F).

Honeywell recommends that you leave the Net Base connected to its power source at all times, so that it is always ready to use.

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Connecting Power to the Net Base

Power LED

A/C Power Cord

Power
Adapter

Power Connector Cable
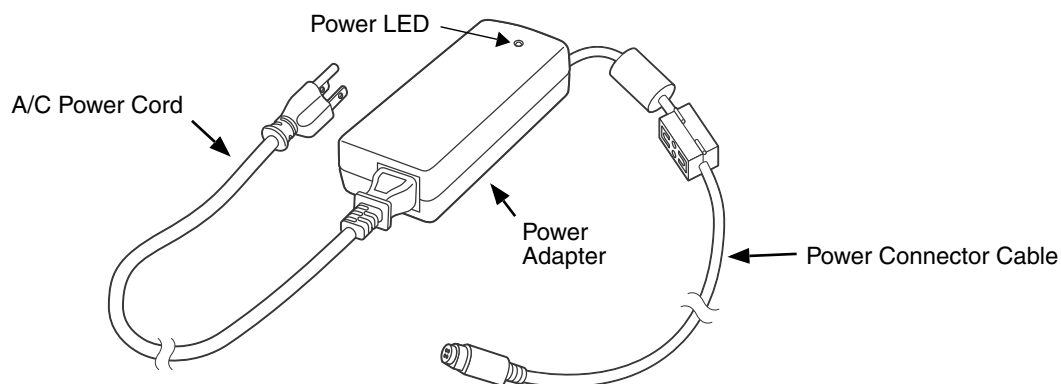
1. Plug the A/C power cord into the power adapter.

2. Plug the power connector cable into the power connector on the back of the Net Base.

3. Plug the A/C power cord into a standard wall outlet. The LED on the Power Adapter illuminates to indicate power.

4. All four Power/Dock LEDs illuminate solid red to indicate the base has power. Terminal wells with properly docked Dolphins indicate power with a green LED.

5. The base is ready to begin charging terminals.

Charging the Main Battery

The base provides power to the Dolphin terminals and allows the charging of the main batteries in the terminals. The main battery of each terminal charges in 4 hours for the standard battery or
6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery packs, or the base.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to Power (page 7-15) and Batteries (page 3-12).
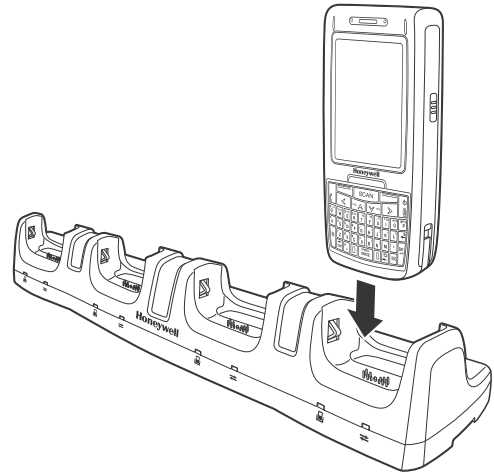
To Power a Terminal and Charge its Main Battery

1. Verify the main battery pack is installed in the terminal and the battery lock is engaged, see Install the Main Battery Pack on page 2-1.

2. Verify the base has power. If the Power/Dock LEDs are not illuminated, see Connecting Power to the Net Base on page 16-4.

3. Slide the Dolphin terminal into one of the four terminal wells. The Power/Dock LED for the well changes to green. Charging begins immediately if required by the Dolphin terminal.

⚠ *Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.*

⚠ *We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Communication

Software Requirements

Before you connect the Dolphin terminal to the Net Base, make sure you have the most current software installed. To check the terminal's system information, tap ⊞ > **Power Tools** > **SysInfo**.

Applications on the Dolphin Terminal

Applications running on the Dolphin terminal when it is connected to the Net Base should be designed specifically for a partially connected network. For more details, please refer to the *Best Practices for Partially Connected Networks* document available at www.honeywellaidc.com.

Connecting the Dolphin Terminal to the Net Base

By default, the Dolphin terminal is configured to obtain IP addresses automatically using a DHCP server. This means that in most cases, you would simply plug-and-play the unit.

1. Verify the base has power. If the Power/Dock LEDs are not illuminated, see Connecting Power to the Net Base on page 16-4.

2. Plug the CAT-5 Ethernet cable into one of the RJ45 connectors on the back of the Net Base.

3. Plug the Ethernet cable into the network.

4. Insert the Dolphin into one of the terminal wells. The DOCK LED for the well changes from red to green and the connection icon on the Dolphin's title bar changes from ⇄ to ⇄.

5. By default, the DHCP server assigns a unique IP address to each of the Dolphin terminals docked in the Net Base. This IP address can be used by any application on the Dolphin terminal.

Note: Instead of using the default for DHCP assigned IP addresses, the Dolphin terminal can use a statically assigned IP address. See standard Microsoft Windows Mobile documentation for how to assign a static IP address to a network adapter. In this case, set a static IP address for the adapter named "SMC95001 USB2.0 FAST Ethernet Drive".

Displaying the Net Base Terminal Well and Dolphin IP Address

Once the Dolphin terminal establishes communication, it uses the unique IP address assigned to the terminal well it is docked in on the Net Base. If four Dolphin terminals are successfully connected, then four different IP addresses are assigned to the adapter associated with the Dolphin terminal.

1. Tap ⊞ > **Power Tools > Network Utilities > IPConfig**.

2. Change the **Adapter** to SMC95001.

3. On the Input tab, tap the **Display full configuration** button.

4. The Dolphin terminal retrieves and displays the IP configuration for the entire Dolphin terminal and the Net Base terminal well where the Dolphin is docked.

5. Locate the **IpAddress** field in the IP configuration list.

Mounting the Net Base

Set the Net Base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the Net Base. When choosing a location, bear in mind that the mounting location must allow users easy access to the terminal wells, the Ethernet ports, and the power jack.

Bottom Panel

DIN Rail Slot

Rubber Feet, Qty. 8

Optional Mounting Holes for M3 self
tapping screws, Qty. 4. Maximum
thread depth of 7 mm.

Desk Mounting

The DIN Rail (7.5 X 35 mm) slot on the bottom panel enables secure mounting on a horizontal surface.

Hardware Required

- 3/16 in. dia x 5/8 in. long pan head screw
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick
- 3/16 in. dia nut

Installing the DIN Rail

1. Slide the DIN Rail into the DIN Rail slot on the bottom panel of the base.

2. Turn the base and DIN Rail right side up.

3. Then, using the appropriate nuts and bolts, secure the DIN Rail to a stable, flat horizontal surface.

DIN Rail (7.5 x 35 mm)

Wall Mounting

The optional wall mount bracket enables secure mounting of the base on a vertical surface. The wall mount bracket can be used in conjunction with the DIN rail but does not require the DIN Rail for use.

Hardware (Provided)

- M3 x 9 mm self-tapping screws, #2 Phillips, Qty. 4
- 3/8 in. x 4 in. round head toggle bolt, 2-5/8 in. usable length, Qty. 4
- 3/8 in. x 2 1/2 in. length Hex Head Lag Screw, Qty. 4

Tools Required

- Drill
- 7/8 in. Drill Bit (for hollow wall installations) or
  1/4 in. Drill Bit (for wood stud installation)
- Phillips Screw Driver

Hollow Wall Installation

1. Drill four pilot holes in the wall using a 7/8 in. drill bit.

13.78 in.
[35 cm]

6.5 in.
[16.5 cm]

Wall Mount Holes

Wall Mount Bracket

2. Slide the bolt through the wall bracket, and thread the toggle nut onto the bolt.

3. Press the ends of the toggle nut together, and insert the bolt/nut into the pilot hole until the nut clears inside wall surface. The toggle nut should spring open preventing the screw from being removed.

4. Repeat steps 2 and 3 for each of the remaining mounting holes.

5. Tighten all four bolts to secure the bracket to the wall.

6. Once the bracket is installed, secure the base to the wall bracket, see Securing the Base to the Wall Bracket for detailed instructions.

Wood Stud Installation

1. Drill four pilot holes in the wall/wood stud using the 1/4 in. drill bit.

2. Secure the bracket to the wall using the four Hex Head Lag Screws provided.

3. Once the bracket is installed, secure the base to the wall bracket, see Securing the Base to the Wall Bracket for detailed instructions.

Securing the Base to the Wall Bracket

You can secure the base to the wall bracket by using the self tapping screws provided or you can use the optional DIN Rail.

To secure the base using the self tapping screws:

1. Position the base on the wall bracket, as shown.

2. Secure the base to the bracket using the four M3 x 9 mm self-tapping screws.

To secure the base using the optional DIN Rail:

Hardware Required

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 2
- 3/16 in. dia nut, Qty. 2

1. Position the DIN Rail on the wall bracket, as shown below.

2. Slide the screw through the slot on the DIN Rail and the mounting hole in the bracket.

3. Slide the washer onto the screw and tighten the nut to secure the assembly.

Wall Bracket, Qty. 1

Screw, Qty. 2

Washer, Qty. 1

Nut, Qty. 1

DIN Rail, Qty. 1

Washer, Qty. 1

Nut, Qty. 1

4. Remove the rubber feet on the bottom of the ChargeBase.

5. Slide the base onto the DIN Rail using the slot on the bottom of the base.

Wall Bracket

Net Base

DIN Rail

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Dolphin 7800 QuadCharger Device (Model 7800-QC)

Overview

This 4-slot charging station provides intelligent battery management for the rechargeable battery packs used in Dolphin terminals.

The 7800-QC charger is designed for use with standard battery pack model 7800-BTSC or 7800-BTSCW (Li-ion 3.7 V, 8.9 watt hour) and extended battery pack model 7800-BTXC or 7800-BTXCW (Li-ion 3.7 V, 14.8 watt hour) manufactured for Honeywell International Inc.

⚠ **Warning!** *The QuadCharger is not designed for use in hazardous locations.*

⚠ *We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.*

Unpacking the QuadCharger

Open the shipping box and inspect the package to see that the following standard items are included:

- One QuadCharger, model 7800-QC
- One power supply (see Power on page 17-3)
- One power cord

These items are needed to operate the QuadCharger. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the HomeBase for service or to store the HomeBase while not in use.

Charging Overview

Each charging slot works independently of the other three. As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for the battery type. The process monitors changes in temperature, current, and voltage and resets the battery pack. Charge time is 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the Guidelines for Battery Pack Use and Disposal on page 3-13.

Capacity

The charger holds 4 Honeywell standard or extended batteries.

⚠ *We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

Parts and Functions

Top Panel

Support Legs
Qty. 2

Power Supply
Connector

Status LEDs
Qty. 1 Per Charging Slot

Charging Slots
Qty. 4

Power LED

Charging Slots

There are four charging slots. Each slot holds one battery and charges it independently of the other slots. Charging immediately begins when a battery is placed in a slot.

Power LED

The power LED indicates if the QuadCharger is powered. When the QuadCharger is receiving power, the LED illuminates green.

Power Supply Connector

You attach the power supply to this connector. See Power on page 17-3.

Status LEDs

Each of the four battery slots has a dedicated status LED. The color of the LED indicates the charge status of the battery in the slot.

Color	This color indicates that the battery in the slot…
Green (Solid)	Has completed its charge cycle and is ready for use.
Orange (Solid)	Is being charged at a maximum charge rate.
Red (Flashing)	The internal temperature of the auxiliary battery is too hot or there is a battery error. Charge the auxiliary battery in a cooler environment or replace the battery with a new Honeywell battery.

For more information, see Troubleshooting on page 17-5.

Power

The charger must be connected to a power source via the Honeywell power adapter cable so that voltage is adjusted appropriately. Use only a UL listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 3 amps with the device.

1. Plug the AC power cord into the power adapter.

2. Plug the power cable into the power connector on the back of the charger.

3. Plug the AC power cord into a grounded power source.

4. The power LED illuminates green, and the charger performs a self-diagnostic test that lasts approximately five seconds.
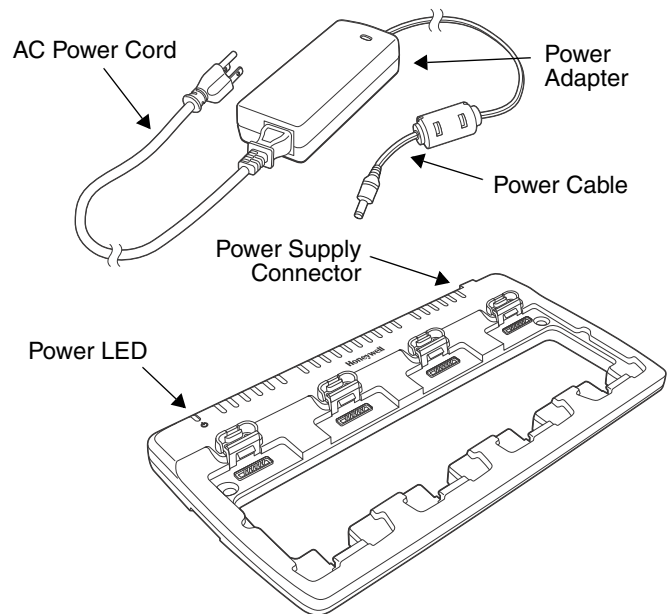
Recommendations for Storing Batteries

To maintain top performance from batteries, avoid storing batteries outside of the following temperature ranges:

- 14°F to 113°F (-10°C to +45°C) for short term storage of less than one month
- 32°F to 86°F (-0°C to +30°C) for long term storage

Do not store batteries in extremely high humidity. For prolonged storage, do not keep batteries stored in a charger that is connected to a power source.

Inserting and Charging Batteries

For best results, battery packs should be at room temperature before recharging them; temperature has a marked effect on charging. The recommended temperature range is 50°F to 95° F (10°C to 35° C).

⚠ *Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.*

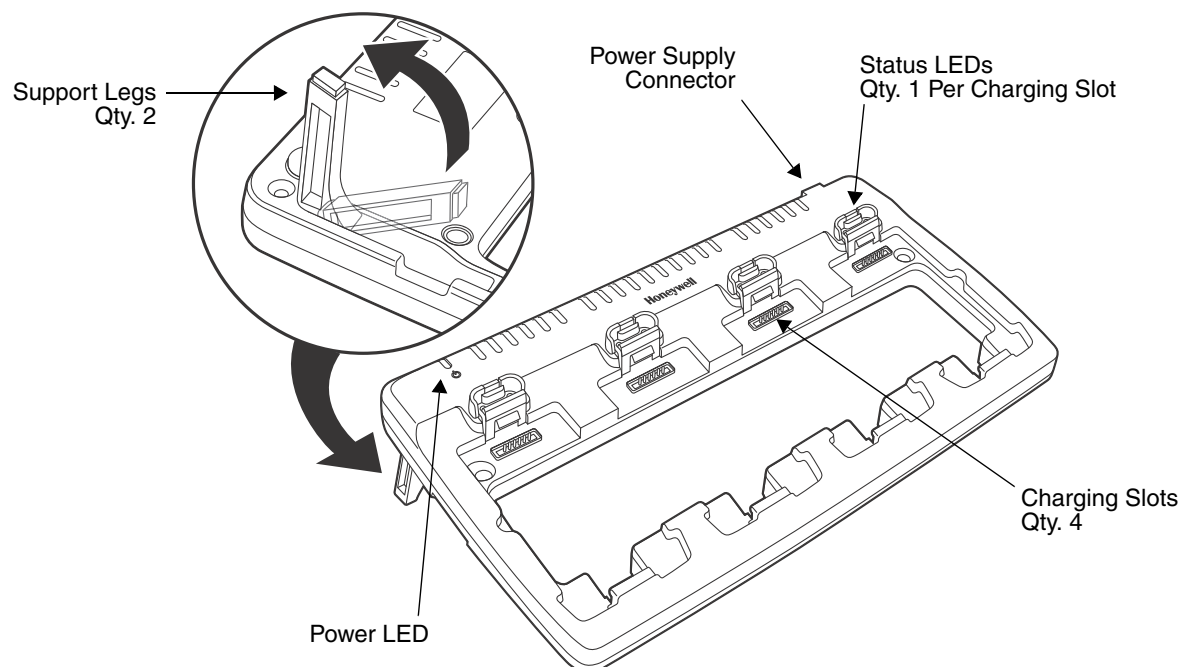⚠ *We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.*

1. Connect power to the charger, see Power above.

2. Insert the battery at an angle.

   Note: Align the battery contacts with the contacts inside the QuadCharger battery well.

3. Snap the battery into place with a hinging motion.

4. The Status LED for that particular slot illuminates orange to indicate the battery is seated properly and the charging cycle has begun.

5. When the Status LED turns green, the battery in the slot has completed charging.
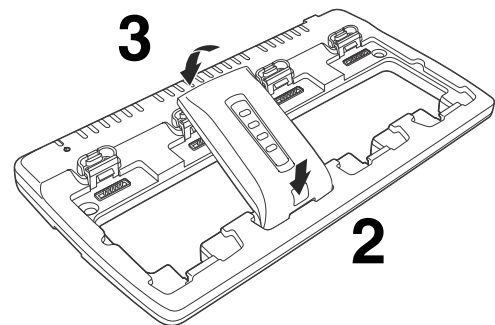
Mounting the QuadCharger

The charger should be located on a dry, stable surface and can be mounted on a flat, horizontal surface such as a desktop or workbench. When choosing a location, always bear in mind that:

• the mounting location must allow users easy access to the power connector.
• the charger should be oriented so that users can easily insert and remove battery packs and see the status LEDs.

Optional Hardware Mount

Bottom Panel
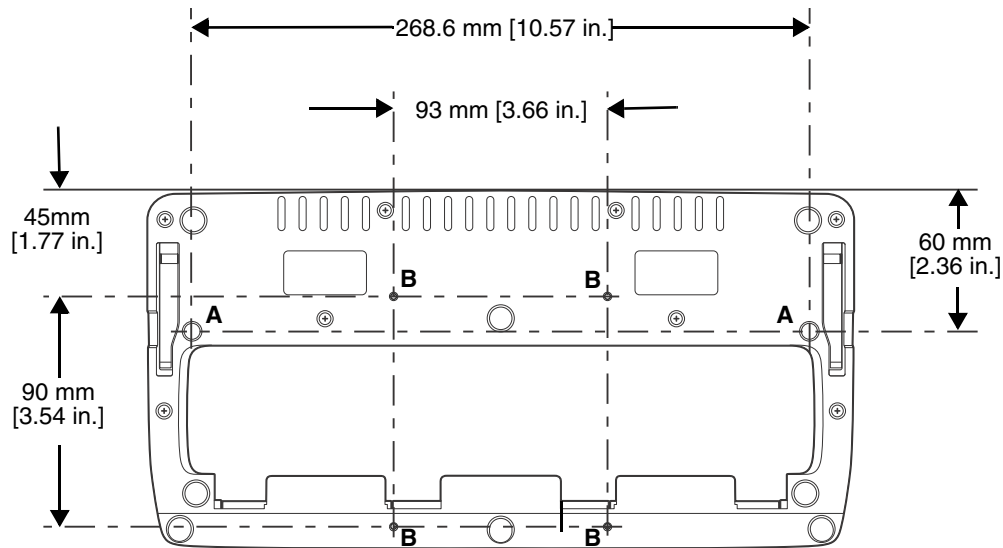
Optional Mounting Holes		
Option	**Size**	**Qty.**
A	6 mm [0.24 in.] Dia. thru hole for #6 Flat Head Phillips Drywall-to-Wood Screws	2
B	Mounting holes for M3 self tapping screws, maximum thread depth of 7 mm	4
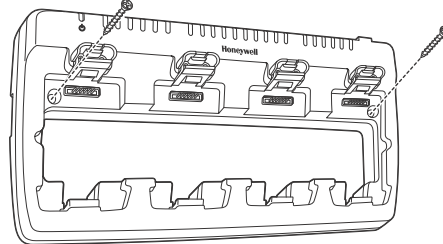
Troubleshooting

If you encounter problems with your QuadCharger device, refer to chart below for possible solutions.
If problems persist, please contact Honeywell Technical Support.

Problem	Issue
The Status LED does not come on when I insert a battery pack.	Check the power connections; make sure the Power cable is inserted into the Power supply connector and the battery pack is properly seated.
The Status LED lights red during charging.	Try to charge the battery in one of the other charging slots. If the red Status LED comes on again, then the problem is associated with the battery pack. If the red status stays with the charging slot, the problem is associated with the charging circuitry.
The Status LED flashes red without a battery in the charging slot.	If a battery is in failure mode (flashing red LED), and that battery is removed from the charging slot, the slot does not reset and will continue to flash red. To reset the slot and stop the flashing red LED, insert a known good battery into the slot or recycle the power to the QuadCharger.

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Customer Support

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To obtain warranty or non-warranty service, please visit www.honeywellaidc.com. and select **Support > Contact Service and Repair** to see your region's instructions on how to obtain a Return Material Authorization number (RMA #). You should do this prior to returning the product.

For ongoing and future product quality improvement initiatives, the 7800 comes equipped with an embedded device lifetime counter function. Honeywell may use the lifetime counter data for future statistical reliability analysis as well as ongoing quality, repair and service purposes.

Technical Assistance

If you need assistance installing or troubleshooting your device, please contact us by using one of the methods below:

Knowledge Base: www.hsmknowledgebase.com

Our Knowledge Base provides thousands of immediate solutions. If the Knowledge Base cannot help, our Technical Support Portal (see below) provides an easy way to report your problem or ask your question.

Technical Support Portal: www.hsmsupportportal.com

The Technical Support Portal not only allows you to report your problem, but it also provides immediate solutions to your technical issues by searching our Knowledge Base. With the Portal, you can submit and track your questions online and send and receive attachments.

Web form: www.hsmcontactsupport.com

You can contact our technical support team directly by filling out our online support form. Enter your contact details and the description of the question/problem.

Telephone: www.honeywellaidc.com/locations

For our latest contact information, please check our website at the link above.

Limited Warranty

Honeywell International Inc. ("HII") warrants its products and optional accessories to be free from defects in materials and workmanship and to conform to HII's published specifications applicable to the products purchased at the time of shipment. This warranty does not cover any HII product which is (i) improperly installed or used; (ii) damaged by accident or negligence, including failure to follow the proper maintenance, service, and cleaning schedule; or (iii) damaged as a result of (A) modification or alteration by the purchaser or other party, (B) excessive voltage or current supplied to or drawn from the interface connections, (C) static electricity or electro-static discharge, (D) operation under conditions beyond the specified operating parameters, or (E) repair or service of the product by anyone other than HII or its authorized representatives.

This warranty shall extend from the time of shipment for the duration published by HII for the product at the time of purchase ("Warranty Period"). Any defective product must be returned (at purchaser's expense) during the Warranty Period to HII factory or authorized service center for inspection. No product will be accepted by HII without a Return Materials Authorization, which may be obtained by contacting

HII. In the event that the product is returned to HII or its authorized service center within the Warranty Period and HII determines to its satisfaction that the product is defective due to defects in materials or workmanship, HII, at its sole option, will either repair or replace the product without charge, except for return shipping to HII.

EXCEPT AS MAY BE OTHERWISE PROVIDED BY APPLICABLE LAW, THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER COVENANTS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, ORAL OR WRITTEN, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

HII'S RESPONSIBILITY AND PURCHASER'S EXCLUSIVE REMEDY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT WITH NEW OR REFURBISHED PARTS. IN NO EVENT SHALL HII BE LIABLE FOR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, AND, IN NO EVENT, SHALL ANY LIABILITY OF HII ARISING IN CONNECTION WITH ANY PRODUCT SOLD HEREUNDER (WHETHER SUCH LIABILITY ARISES FROM A CLAIM BASED ON CONTRACT, WARRANTY, TORT, OR OTHERWISE) EXCEED THE ACTUAL AMOUNT PAID TO HII FOR THE PRODUCT. THESE LIMITATIONS ON LIABILITY SHALL REMAIN IN FULL FORCE AND EFFECT EVEN WHEN HII MAY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH INJURIES, LOSSES, OR DAMAGES. SOME STATES, PROVINCES, OR COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

All provisions of this Limited Warranty are separate and severable, which means that if any provision is held invalid and unenforceable, such determination shall not affect the validity of enforceability of the other provisions hereof. Use of any peripherals not provided by the manufacturer may result in damage not covered by this warranty. This includes but is not limited to: cables, power supplies, cradles, and docking stations. HII extends these warranties only to the first end-users of the products. These warranties are non-transferable.

The limited duration of the warranty for the Dolphin 7800 is as follows:

* The duration of the limited warranty for terminals with an integrated imager is one year.
* The duration of the limited warranty for touch screens is one year.
* The duration of the limited warranty for the Dolphin 7800 HomeBase device, Dolphin 7800 eBase device, Dolphin 7800 Net Base device, Dolphin 7800 QuadCharger device, Dolphin 7800 Mobile Base, and Dolphin 7800 ChargeBase device, is one year.
* The duration of the limited warranty for batteries is one year.
  Use of any battery from a source other than Honeywell may result in damage not covered by the warranty. Batteries returned to Honeywell International Inc. in a reduced state may or not be replaced under this warranty. Battery life will be greatly increased when following the battery instructions in this user's guide.

How to Extend Your Warranty

Honeywell International Inc. offers a variety of service plans on our hardware products. These agreements offer continued coverage for your equipment after the initial warranty expires. For more information, contact your Sales Representative, Customer Account Representative, or Product Service Marketing Manager from Honeywell International Inc., or your Authorized Reseller.

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