

## Dolphin<sup>®</sup> 7850 Mobile Computer

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The Dolphin 7850 device is a compact, pistol-grip style mobile computer purpose-built for scan-intensive in-premise applications. Combining user-focused ergonomics with industrial-grade construction and advanced technologies, the 7850 is designed to increase the productivity of your employees and maximize your return on investment.

Featuring a full-sized angled display for easy data viewing, and a comfortable, well-balanced handle design, the 7850 enhances user productivity while reducing user fatigue and wrist strain. High-speed 802.11b/g wireless connectivity and Shift-PLUS™ power management gives users continuous access to mission-critical data throughout the workplace without interruption, eliminating costly downtime due to data disconnects or replacing batteries.

Easy to use Adaptus<sup>®</sup> Imaging Technology 5.0 delivers high-performance barcode scanning, and enables automated device configuration and update capabilities. A robust suite of integrated software tools provides resources for application development and integration, device deployment, and configuration management. Class-leading terminal emulation and remote device management solutions are available to ease integration of the 7850 into your legacy systems and simplify IT administration once your devices are deployed to the field.

The only product today designed exclusively for frontline in-premise mobile data collection, the 7850 delivers the performance and value you need now - and protects your investment into the future.



### Features

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- **Purpose-Built Ergonomic Design:** Combines an angled 3.5 inch color display and contoured pistol-grip, in a compact, lightweight and balanced device—built specifically for comfortable and efficient in-premise data collection.
- **Long Life Cycle:** Industrial-grade hardware and software components combined with a model for 8-plus years of product support insulates from forced technology change and protects your investment.
- **Versatile, High-Performance Data Collection:** Adaptus Imaging Technology 5.0 reads linear and 2D bar codes and captures digital images, giving you the ability to process and manage more data with a single device than ever before.
- **Powerful Software Utilities:** Comprehensive integrated suite of easy to use software tools and utilities provide simplified device configuration, application development, and device management capabilities.
- **Windows Mobile<sup>®</sup> 5.0:** Powerful, industry standard platform and application flexibility for developers and a familiar interface for users.
- **Shift-PLUS Power Management:** Powers scan-intensive, full-time RF applications continuously for 10 hours or longer, enhancing operational efficiency. Longer battery run-time requires fewer charge cycles—greatly reducing battery replacement costs.
- **Real-Time Wireless Communication:** Integrated 802.11b/g communications delivers real-time network access to mission critical information and supports advanced wireless security standards.
- **Backlit 24- & 38-key Keyboards:** Intuitive numeric and alpha-numeric keyboards are easy to learn and use while supporting a broad range of applications. Low-glare and backlight features increase usability in difficult lighting conditions.
- **Broad and Reliable Connectivity:** Military-grade USB/Serial connector provides dockable or pluggable connection. Bluetooth and IrDA communication offer wireless peripheral connectivity and device replication.

# Technical Specifications



## Basic Features

<b>Form Factor:</b>	Purpose-built, compact, handle-style mobile computer
<b>Operating System:</b>	Windows Mobile 5.0
<b>Development Environment:</b>	Honeywell Dolphin SDK for Visual Studio (supports C/C++, C#, and Visual Basic)
<b>Third Party Software:</b>	SOTI MobiControl (remote device management), PowerNet™ Terminal Emulation (TNVT, 3270, 5250), and ITScriptNet™
<b>CPU:</b>	Intel PXA 270 520 MHz
<b>Memory:</b>	64MB X 64MB & 128 MB RAM X 128 MB Flash memory options available
<b>Display:</b>	3.5 in. 1/4 VGA 240 X 320 TFT color display with hard-coat industrial touch panel
<b>Keyboards:</b>	24-key calculator-style numeric with scrolling alpha 38-key calculator-style numeric with full alpha
<b>Communications:</b>	100K duty-cycle plugable/dockable RS232/USB connector, IrDA, Audio beeper

## Imager Scanners

<b>Available Imager Scanners:</b>	5100SR/SF VGA Area Imagers with bright green LED aimer 5300SR/SF VGA Area Imagers with High-Vis aiming pattern 5300HD VGA Area Imagers with High-Vis aiming pattern	Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
<b>Available Laser Scanners:</b>	HP (High Performance) Laser scanner (future option) LR (Long Range) Laser scanner (future option) ALR (Advanced Long Range) Laser scanner (future option)	
<b>1D Symbologies:</b>	Codabar, Code 3 of 9, Code11, 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, PosiCode, Straight 2 of 5 IATA, Straight 2 of 5 Industrial, Telepen, Trioptic Code, UPC, UPC-A, and UPC-E	
<b>2D Symbologies:</b>	Aztec, Codablock, Code 16K, Code 49, Composite, Data Matrix, GS1 Databar, MaxiCode, Micro PDF, OCR, PDF417, and QR Code	
<b>Composite Codes:</b>	Aztec Mesa, Codablock F, EAN-UCC, GS1 Databar-14	
<b>OCR:</b>	OCR-A, OCR-B, OCR-US Money Font	
<b>Postal Codes:</b>	Postnet and most international 4 state codes, Australian Post, British Post, Canadian Post, China Post, Japanese Post, KIX (Netherlands) Post, Korea Post, Planet Code	

## Power

<b>Battery:</b>	<b>Main:</b> Lithium-ion 7.4V, 14.1 Watt-hour, hot-swappable battery pack <b>Backup:</b> Internal 3.6V nickel metal hydride (NiMH) battery saves RAM data for 30-minutes during main battery change
<b>Run Time (estimated):</b>	<b>WLAN:</b> 10+ hours at 1 scan/6 sec, 1 data package logged every scan, 802.11b/g continuous connection, & display backlight on full
<b>Stand-by Time:</b>	<b>Device suspend mode:</b> 8 days minimum
<b>Charging:</b>	9.5V AC input through handle charge port or USB/Serial connector, four hours recharge
<b>Charging Peripherals:</b>	AC wall adapter, Charge/Communication Cable, single bay Home Base, 4 bay Charge Base, battery Quad Charger

## Wireless Radios

<b>WLAN Standard:</b>	802.11b/g, Wi-Fi Certified
<b>WLAN Security:</b>	WEP, WPA Personal/Enterprise, WPA2 Personal/Enterprise, EAP-TLS, TTLS, LEAP, PEAP, Cisco CCX compliant (pending)
<b>WPAN (optional):</b>	Bluetooth class 2, version 1.2 (optional feature)
<b>Co-Located/Operational:</b>	<b>Two radios:</b> WLAN/WPAN

## Physical

<b>Operating Temperature:</b>	Standard configuration is 14°—122°F / -10°—50°C nominal; -4° (-20°C) with reduced runtime Optional Bluetooth configuration is 32°—104°F / 0°—40°C
<b>Construction:</b>	Magnesium alloy internal chassis with component shock mounts Engineering-grade polycarbonate outer housing with integrated rubber over-molded handle
<b>Structural:</b>	5 ft. (1.5m) multiple drops to concrete, all axis, across operating temperature range Exceeds 2000 3 ft. (1m) tumbles
<b>Environmental:</b>	IP64 rated for blown dust/water intrusion
<b>Dimensions:</b>	<b>Main housing:</b> 7.1 in. Long X 3.3 in. Wide X 1.4 in. Deep (18 cm Long X 8.4 cm Wide X 3.6 cm Deep) <b>Handle:</b> 4.6 in. Long X 1.6 in. Wide X 1 in. Deep (12 cm Long X 4.1 cm Wide x 2.5 cm Deep)
<b>Weight:</b>	Approximately 22 oz/684g

## Warranty

<b>Standard:</b>	2 years
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## Automation and Control Solutions

Honeywell  
Imaging and Mobility  
700 Visions Drive  
PO Box 208  
Skaneateles Falls, NY 13153-0208  
www.honeywell.com/aidc

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