

Dolphin® 7850 Mobile Computer

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.

The 7850 supports a wide range of imaging and scanning solutions to address specific customer data collection requirements. Easy to use Adaptus Imaging Technology 5.0 delivers high performance 1D and 2D barcode scanning while enabling automated device configuration and update capabilities. Laser options are also available for long range scanning applications.

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

- **Optimized for In-Premise Use:** 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.
- **Industrial-Grade Durability:** Environmentally sealed housing, internal magnesium alloy roll cage and specialized wear-resistant components ensure years of reliable use.
- **Multiple Data Collection Technology Options:**
 - Adaptus Imaging Technology provides linear and 2D barcode reading for standard range scanning applications.
 - Laser scanner options provide long range linear reading out to 30' (9.1m).
- **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® 5.0:** Powerful, industry standard platform, 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.

7850 Technical Specifications



Basic Features

Form Factor:	Purpose-built, compact, handle-style mobile computer
Operating System:	Windows Mobile 5.0
Development Environment:	Honeywell Dolphin SDK for Visual Studio (supports C/C++, C#, and Visual Basic)
Third Party Software:	SOTI MobiControl (remote device management), PowerNet™ Terminal Emulation (TNVT, 3270, 5250), and ITScriptNet™
CPU:	Intel PXA 270 312 MHz & 520 MHz options
Memory (RAM/ROM):	64MB/64MB and 128MB/128 MB options
Display:	3.5 in. 1/4 VGA 240 X 320 TFT color display with hard-coat industrial touch panel
Keyboards:	24-key calculator-style numeric with scrolling alpha 38-key calculator-style numeric with full alpha
Communications:	100K duty-cycle plugable/dockable RS232/USB connector, IrDA, Audio beeper

Data Capture Options

2D Imager Options:	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.
Laser Scanner Options:	HP (High Performance) LR (Long Range) ALR (Advanced Long Range)	 <small>LASER LIGHT - DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT 1.0 mW MAX OUTPUT: 650nm IEC60825-1: 1993+A1+A2 Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.</small>
1D Symbologies:	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 of 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	
2D Symbologies:	Aztec, Codablock, Code 16K, Code 49, Composite, Data Matrix, GS1 Databar, MaxiCode, Micro PDF, OCR, PDF417, and QR Code	
Composite Codes:	Aztec Mesa, Codablock F, EAN-UCC, GS1 Databar-14	
OCR:	OCR-A, OCR-B, OCR-US Money Font	
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	

Power

Battery:	Main: Lithium-ion 7.4V, 14.8 Watt-hour, hot-swappable battery pack Backup: Internal 3.6V nickel metal hydride (NiMH) battery saves RAM data for 30-minutes during main battery change
Run Time (estimated):	WLAN: 10+ hours at 1 scan/6 sec, 1 data package logged every scan, 802.11b/g continuous connection, & display backlight on full
Stand-by Time:	Device suspend mode: 8 days minimum
Charging:	9.5V AC input through handle charge port or USB/Serial connector, four hours recharge
Charging Peripherals:	AC wall adapter, Charge/Communication cable, single-bay Home Base, 4 bay Charge Base, battery Quad Charger

Wireless Radios

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

Physical

Operating Temperature:	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
Construction:	Magnesium alloy internal chassis with component shock mounts Engineering-grade polycarbonate outer housing with integrated rubber over-molded handle
Structural:	5 ft. (1.5m) multiple drops to concrete, all axis, across operating temperature range; 6ft. (1.8m) with optional rubber boot cover Exceeds 2000 3 ft. (1m) tumbles
Environmental:	IP64 rated for blown dust/water intrusion
Dimensions:	Main housing: 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) Handle: 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)
Weight:	Approximately 22 oz/684g

Warranty

Standard:	2 years
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