Dolphin® 7850
Mobile Computer

powered by
Adaptus®
imaging technology 5.0

Overview

The Dolphin® 7850 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® 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 Dolphin 7850 delivers the performance and value you need now - and protects your investment into the future.

Premium Features

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.

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.

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.
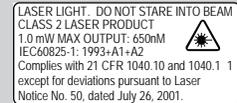
Industry Standard Features

Microsoft® Windows Mobile® 5.0: Powerful, industry standard platform and application flexibility for developers and a familiar interface for users.

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.

HandHeld®
PRODUCTS

Dolphin® 7850 Specifications

Basic Features

Form Factor:	Purpose-built, compact, handle-style mobile computer
Operating System:	Microsoft Windows Mobile 5.0
Development Environment:	Hand Held Products Dolphin SDK for Visual Studio 2005–supports C/C++, C# and Visual Basic development on Visual Studio 2005
Third Party Software:	SOTI MobiControl (remote device management), PowerNet™ Terminal Emulation (TNVT, 3270, 5250), and ITScriptNet™
CPU :	Intel PXA 270 520 MHz
Memory:	64MB X 64MB & 128 MB RAM X 128 MB Flash memory options available
Display:	3.5 in. 1/4 VGA 240 X 320 TFT color display with hard-coat industrial touch panel
Imager/Scanner:	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 HP (High Performance) Laser scanner (future option) LR (Long Range) Laser scanner (future option) ALR (Advanced Long Range) Laser scanner (future option) Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. 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 1040.1 1 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.
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

Power

Battery:	**Main:** Lithium-ion 7.4V, 14.1 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 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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