

Dolphin[®] 7900

Mobile Computer



Overview

The Dolphin 7900 mobile computer delivers an unparalleled combination of functionality and industrial-grade durability for mobile data collection applications including route accounting, direct store delivery, courier, utilities, and field services.

Featuring integrated Global Positioning System (GPS) technology, the 7900 enables value added location based functionality such as turn-by-turn navigation, driver location and route optimization, and the ability to document proof of visitation or service. Combined with the 7900's advanced wireless and data collection technologies, the result is a single comprehensive mobile solution that eliminates the need for deploying multiple devices to the field - reducing cost, easing management and simplifying your IT structure.

To provide seamless data and voice communications between you and your mobile workers, the 7900 features an integrated triple-radio design for Wireless Full Area Networking (WFAN) – combining Bluetooth[®], 802.11 and GSM/GPRS to provide reliable real-time information access and exchange anytime, anywhere. Shift PLUS power management provides 10 or more hours of continuous run time, even when used in full time wireless, scan-intensive environments – eliminating costly downtime and lost productivity due to battery replacement or re-charging.

Powered by Adaptus Imaging Technology 5.0, the 7900 delivers the broadest suite of advanced data capture capabilities, include linear and 2D barcode scanning, digital image capture, and intelligent signature capture. Whether scanning a package for delivery, capturing a signature for proof of receipt, or taking a picture of damaged goods, Adaptus provides the capabilities you need to increase efficiency and customer service.

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 7900 into your legacy systems and simplify IT administration once your devices are deployed to the field.

Premium Features

- **Optimal Combination of Durability and Usability:** Featuring an internal, magnesium-alloy roll-cage, environmentally sealed housing, and wear resistant components, the 7900 is built to deliver reliable use in demanding mobile applications while its compact, ergonomic design provides intuitive scanning, data entry, and voice communications.
- **Wireless Full Area Networking™ (WFAN):** Integrated WAN, LAN, and PAN for real-time data exchange and voice communications keeps users continually connected to mission critical information.
- **Built-In GPS Technology:** Enables turn-by-turn navigation, driver route optimization, “bread-crumbling,” geo-fencing, and other location-based applications, giving you a powerful tool to enhance the effectiveness of your mobile workforce and giving your enterprise better control over assets and operations.
- **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.
- **Shift-PLUS™ Power Management:** Powers scan-intensive, real-time wireless and GPS-centric applications continuously for 10 hours or more, enhancing operational efficiency while greatly extending useful battery life and reducing replacement costs.
- **Powerful Software Tools:** Comprehensive suite of easy to use software tools and utilities provide easy device configuration, application development, and remote device management capabilities.

Industry Standard Features

- **Microsoft® Windows Mobile® 5.0:** Powerful, industry-standard platform for developers and users, simplifying integration and ensuring intuitive operation.
- **Optional Memory Expansion:** Mini Secure Digital (Mini-SD) provides the option of additional memory for secure application data storage.
- **25- and 36-Key Keyboard Options:** Numeric or full alpha keypad solutions to satisfy your data entry requirements.

Dolphin® 7900 Specifications



System Architecture

Processor:	Intel X-Scale PXA255 400MHz
Development Environment:	Hand Held Products Dolphin SDK for Visual Studio 2005—supports C/C++, C#, and Visual Basic development on Visual Studio 2005
Operating Platform:	Windows Mobile 5.0
Third-Party Software:	SOTI MobiControl (remote device management), PowerNet™ Terminal Emulation (TNVT, 3270, 5250), and ITScriptNet™
Memory Options:	64MB X 64MB and 128MB X 128MB RAM and Flash memory options available
Memory Expansion:	User-accessible Mini Secure Digital (Mini-SD) Flash memory interface; 2GB factory-installed option available

Data Inputs

Imager/Scanner:	5300 Standard Range (SR) with High-Vis laser aimer, decodes from 1.9 in. to 13.1 in. (4.8 cm. to 33.3 cm.) 5100 Smart Focus (SF) with green aimer, decodes from 1.7 to 8.8 in. (4.3 to 22.3 cm.) 5300 Smart Focus (SF) with High-Vis laser aimer, decodes from 1.7 to 8.8 in. (4.3 to 22.3 cm.) (Specifications are for 100% UPC Code.) Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.	
1D Symbologies Read:	Codabar, Code 3 of 9, Code 11, Code 32 Pharmaceutical (PARAF), Code 93, Code 128, EAN with Add-On and EAN with Extended Coupon Code, EAN-13, Interleaved 2 or 5, Matrix 2 of 5, Plessey, PosiCode, GS1DataBar, Straight 2 of 5 IATA, Straight 2 of 5 Industrial, Telepen, Trioptic Code, UCC/EAN-128, UPC and UPC-A	
2D Symbologies Read:	Aztec, Code 16K, Composite, Data Matrix, MaxiCode, OCR, PDF417, QR Code, RSS	
Composite and OCR Codes:	Aztec Mesa, Codablock F, EAN-UCC, RSS-14 and OCR-A and OCR-B	
Postal Codes:	Postnet, Australian, British, Canadian, China, Japanese, KIX (Netherlands), and Korea Post, Planet Code	
Keyboards:	Two backlit keyboard options with in-mold graphics for indefinite wear resistance: 25-key numeric and 36-key alpha	

Data Outputs

Display:	3.8" 1/4 VGA (240 x 320 portrait mode) color TFT LCD display with industrial-grade touch screen
I/O Ports:	Industrial-grade mechanical connector supports communications—USB 1.1, serial RS-232 up to 115Kbps—and charging via cradles or AC adapter cables, IrDA Port-Integrated, Speaker-Integrated, Microphone-Integrated, Headset jack

Wireless Radio Options

WWAN:	Quad band: GSM 850/900/1800/1900MHz, GSM release 99, EDGE (E-GPRS) multi-slot class 10, GPRS multi-slot class 12
WLAN:	IEEE 802.11b DSSS Authentication Methodologies: WEP, 802.1x, LEAP, TKIP, MD5, TLS, TTLS, PSK, and PEAP
WPAN:	Bluetooth (Version 1.2, Class 2)
GPS:	Integrated GPS (Global Positioning System) receiver with internal antenna

Physical

Dimensions:	(LxWxD): 7.3 in. x 3.5 in. x 1.7 in. (19 cm x 8.9 cm x 4.3 cm) At grip (WxD): 3.2 in. x 1.5 in. (8.1 cm x 3.8 cm)
Weight:	17 oz. to 19.2 oz (482 gm to 544 gm), configuration dependent
Operating Temperature:	14 to 122°F (-10°C to 50°C); can operate down to -20°C with potential degradation in performance depending on the application
Storage Temperature:	-4° to 158°F (-20° to 70°C)
Humidity:	95% humidity, non-condensing
Electrical Static Discharge:	15 KVA on all surfaces
Impact Resistance:	Withstands multiple 5 ft. (1.5m) drops onto concrete, 2,000 1 meter tumbles
Environmental Resistance:	Independently certified to meet IP64 standards for moisture and particle resistance
Power:	Lithium-ion battery technology with a 7.4V, 14.8 watt-hour main battery with hot-swappable design for fast replacement in the field
Other:	Integrated stylus with optional tether and removable hand strap

Peripherals/Accessories

Dolphin HomeBase™:	Charging/communications cradle with auxiliary battery well. Data transfer via RS-232 serial or USB ports
Dolphin Mobile Base™:	Mobile charging/communication cradle. Data transfer via RS-232 serial. Power out at 5 volts for peripheral devices
Dolphin QuadCharger™:	Four-slot battery charger that charges four batteries in under four hours. One slot doubles as a battery analyzer
Dolphin Mobile Charger:	Charges a Dolphin terminal by plugging into a vehicle cigarette lighter/power port
Dolphin NetBase:	Four-slot charging/communication cradle designed for Ethernet-based communications
Dolphin ChargeBase:	Four-slot charging cradle—each slot holds, powers, and charges a terminal
Dolphin Cable Kits:	USB or serial cables that charge and communicate with the terminal directly, without a cradle
Dolphin Mag Stripe Reader:	Attachment that reads magnetic stripe information encoded on credit cards, driver's licenses, and personal information cards (Not available in Europe.)

Regulatory Approvals

FCC-CE-Radio Country:	US/Canada, R&TTE
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Worldwide Offices

NORTH AMERICA

Skaneateles Falls, NY
Tel: +1 315 685 8945
or, in North America:
+1 800 582 4263
napresales@handheld.com

Carolinas
Tel: +1 803 835 8000
or, in North America:
+1 800 582 4263
napresales@handheld.com

ASIA AND THE PACIFIC RIM

Hong Kong
Tel: +852 2511 3050
appresales@handheld.com

Japan
Tel: +813 5770 6312
appresales@handheld.com

Shanghai
Tel: +86 21 6361 3818
appresales@handheld.com

Malaysia
Tel: +603-6201 9020
appresales@handheld.com

LATIN AMERICA

Naples, Florida
Tel: +1 239 263 7600
lapresales@handheld.com

Rio De Janeiro
Tel: +55 21 2178 0500
lapresales@handheld.com

Mexico
Tel: +52 55 5203 2100
lapresales@handheld.com

EUROPE, MIDDLE EAST, AND AFRICA

Europe
Tel: +31 (0) 40 29 01 600
eusales@handheld.com

United Kingdom
Tel: +44 (0) 1 925 240055
eusales@handheld.com

Italy
Tel: +39 02 7254 6754
Info.italy@handheld.com

France
Tel: +33 (0) 1 41 158220
Info.france@handheld.com

Germany
Tel: +49 (0) 7 477 151377
Info.germany@handheld.com

Spain
Tel: +34 93 228 78 68
Info.spain@handheld.com

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