

Dolphin® 7900

Mobile Computer



Overview

The Dolphin 7900 mobile computer delivers unparalleled performance and value for mobile data collection applications. Its compact, ergonomic, rugged design provides the ease of use and operational reliability needed to excel in robust mobile applications such as package delivery, field service, route accounting, trucking, retail, and healthcare.

For maximum speed, efficiency, and usability, the 7900 comes equipped with a high-performance system architecture and is powered by a high capacity, hot-swappable lithium-ion battery pack, enabling the 7900 to operate longer in wireless, scan-intensive environments.

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). This state-of-the-art feature enables real-time information access and exchange anytime, anywhere – improving operational efficiency and data accuracy.

To maximize data capture flexibility and usability, the 7900 is equipped with Adaptus Imaging Technology 5.0, which is capable of reading virtually all linear and 2D barcodes plus capturing digital images. Whether scanning a package for delivery, reading a patient identification wrist band, capturing a signature for proof of receipt, or taking a picture of damaged goods, the 7900 provides the performance your applications demand today while future-proofing your investment for years to come.

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.
- **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, constantly connected RF applications continuously for 11 hours or longer, enhancing operational efficiency. Longer battery run-time requires fewer full charge cycles – 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.
- **Intel® X-Scale™ 400 MHz Processor:** Faster processing of data collection applications and image processing.
- **Mini Secure Digital (Mini-SD) User-Accessible Memory Interface:** Provides the option of installing 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; 256MB 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.	<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 Symbolologies 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 Symbolologies 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)

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
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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