

## Dolphin® 9500 Series Mobile Computers

---

Dolphin 9500 Series mobile computers deliver unparalleled performance and value for all mobile data collection applications. Their lightweight, ergonomic, and rugged designs provide the ease of use and operational reliability needed to excel in robust mobile applications such as package delivery, field service, route accounting, transportation, warehousing, retail, and industrial/manufacturing.

For maximum speed, efficiency, and usability, the Dolphin 9500 Series comes equipped with the Intel® X-Scale™ processor and Windows Mobile software. The high-performance system architecture is powered by high-capacity, hot-swappable lithium-ion battery packs, enabling the Dolphin 9500 Series to operate longer in wireless, scan-intensive environments.

Designed to provide seamless data and voice connectivity for you and your mobile workers, the Dolphin 9500 Series features an integrated triple-radio design for wireless WAN, LAN, and PAN communication. This state-of-the-art feature provides real-time information access anytime, anywhere, while communicating to any compatible wireless device, improving operational efficiency while ensuring data accuracy and security.

Integrated Adaptus® Imaging Technology 5.0 provides workers with the data capture tools they need to get the job done quickly and efficiently, whether it is scanning a package for delivery, performing an inventory cycle count, capturing a signature for proof of receipt, or taking a picture of damaged goods. The Dolphin 9500 Series performs these tasks and more, extending the capabilities of your mobile applications and workforce.



### Features

---

- **Windows Mobile® 5.0:** Offers a user-friendly, industry standard platform for both developers and users.
- **Rugged, IP64 Sealed Construction:** Operates in harsh environments, withstands rough treatment, and protects stored data.
- **Intel X-Scale Processor:** Provides faster processing of data collection applications, and image processing.
- **Ergonomic Designs:** Facilitates comfortable, single-handed data collection for extended periods of use.
- **Adaptus Imaging Technology 5.0:** Provides instant point-and-shoot bar code scanning (1D and 2D), signature and digital image capture.
- **Triple Wireless Radio Design (9500):** Integrated WAN, LAN, and PAN for real-time data collection and access to information anytime, anywhere.
- **Lithium Ion Battery:** 7.4 volt, 14.8 watt-hour ensures longer operation time with wireless communication and scan-intensive applications.
- **1/4 VGA Color Display With Industrial Touch Screen:** Offers enhanced data viewing and application interface.
- **Secure Digital (SD) User Accessible Memory Interface:** Provides the option of installing additional memory for application data storage.
- **Three Intuitive Keyboard Layouts:** Customize your data entry for your mobile application solution.

# Technical Specifications



## System Architecture

<b>Processor:</b>	Intel X-Scale PXA255 400MHz
<b>Development Environment:</b>	Dolphin SDK for Visual Studio 2005 (supports C/C++, C#, and Visual Basic development on Visual Studio 2005)
<b>Operating Platform:</b>	Microsoft Windows Mobile 5.0 Professional Edition Microsoft Windows Mobile 2003 Second Edition (optional)
<b>Third-Party Software:</b>	SOTI MobiControl (remote device management), PowerNet™ Terminal Emulation (TNVT, 3270, 5250), and ITScriptNet™
<b>Memory:</b>	64MB RAM x 64MB non-volatile Flash

## Data Inputs

<b>Imager/Scanner:</b>	5100 Standard Range (SR) with green aimer, decodes from 1.9 to 13.1 in. (4.8 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 Standard Range (SR) with High-Vis laser aimer, decodes from 1.9 to 13.1 in. (4.8 to 33.3 cm.) <i>(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.</i>	
<b>Laser Scanner (9501/9551):</b>	HP non-decoded reads 5 mil bar codes from 2.75 to 7 in (.07 to .17 m); 55 mil reflective bar codes from 5 to 50 in (.13 to 1.27 m.) LR non-decoded reads 10 mil bar codes from 10 to 24 in (.25 to .6 m); 100 mil reflective bar codes from 66 to 232 in (1.67 to 5.9 m.) ALR non-decoded reads 13 mil bar codes from 18 to 39 in (.45 to 1 m); 100 mil reflective bar codes from 102 to 363 in (2.6 to 9.2m.)	
<b>1D Symbologies Read:</b>	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, GS1 Databar, Straight 2 of 5 IATA, Straight 2 of 5 Industrial, Telepen, Trioptic Code, UCC/EAN-128, UPC and UPC-A (Dolphin 9501/9551 scans only 1D symbologies.)	
<b>2D Symbologies Read:</b>	Aztec, Code 16K, Composite, Data Matrix, MaxiCode, OCR, PDF417, QR Code, GS1 Databar	
<b>Composite and OCR Codes:</b>	Aztec Mesa, Codablock F, EAN-UCC, GS1 Databar-14 and OCR-A and OCR-B	
<b>Postal Codes:</b>	Postnet, Australian, British, Canadian, China, Japanese, KIX (Netherlands), and Korea Post, Planet Code	
<b>Keyboards:</b>	Three backlit keyboard options: 35-key numeric-shifted alpha, 43-key alpha-shifted numeric, and 56-key full alpha/numeric	

## Data Outputs

<b>Display:</b>	1/4 VGA (240 x 320 portrait mode) color TFT LCD display with industrial-grade touch panel
<b>I/O Ports:</b>	Mechanical connector supports communication—USB 1.1 and serial RS-232 up to 115 Kbps—and charges via cradles AC adapter cables, Integrated IrDA port, Integrated audio jack that acts as a speaker and a microphone
<b>Mass Storage:</b>	User-accessible Secure Digital memory interface

## Wireless Radio Options

<b>WWAN (9500 Only):</b>	GSM quad band (850/900/1800/1900MHz) radio with accessible SIM card interface, GSM release 99, EDGE (E-GPRS) multi-slot class 10, GPRS multi-slot class 12
<b>WLAN:</b>	IEEE 802.11b DSSS Authentication Methodologies: LEAP, MD5, TLS, TTLS, PEAP, and WEP
<b>WPAN:</b>	Bluetooth (Class 2)

## Physical

<b>Dimensions:</b>	9500/9501—9.6"L x 3.45"W x 1.66"D at display (24.53 x 8.76 x 4.23 cm), 2.7"W x 1.5"D at grip (6.9 x 3.8 cm) 9550/9551—9.6"L x 3.45"W x 2.27"D at display (24.53 x 8.76 x 5.76 cm), 2.7"W x 1.5"D at grip (6.9 x 3.8 cm)
<b>Weight:</b>	9500—Batch: 19.7 oz. (558 gm), WLAN: 20.2 oz. (573 gm), WPAN: 20 oz. (567 gm), WLAN/WPAN: 20.3 oz. (576 gm) 9501—22.65 oz. (642 gm), all versions 9550—Batch: 23.4 oz. (663 gm), WLAN: 23.9 oz. (677.5 gm) 9551—25.8 oz. (732 gm), all versions
<b>Operating Temperature:</b>	14 to 122°F (-10°C to 50°C); can operate down to -20°C with potential degradation in performance depending on the application
<b>Storage Temperature:</b>	-4° to 158°F (-20° to 70°C)
<b>Humidity:</b>	95% humidity, non-condensing
<b>Electrical Static Discharge:</b>	15 KVA on all surfaces
<b>Impact Resistance:</b>	Withstands multiple 5 ft. (1.5m) drops onto concrete
<b>Environmental Resistance:</b>	Independently certified to meet IP64 standards for moisture and particle resistance
<b>Power:</b>	Lithium-ion battery technology with a 7.4V, 14.8 watt-hour main battery with hot-swappable design for fast replacement in the field
<b>Other:</b>	Integrated stylus with optional tether and removable hand strap

## Regulatory Approvals

<b>FCC-CE-Radio Country:</b>	US/Canada, R&TTE
------------------------------	------------------

Microsoft, Windows, and the Windows Logo are registered trademarks or trademarks of Microsoft Corporation. Intel is a registered trademark of Intel Corporation. The Bluetooth trademarks are owned by Bluetooth SIG, Inc. U.S.A. and licensed to Honeywell International Inc. Dolphin products have no affiliation with Honeywell branded batteries/chargers, which are exclusively distributed by Global Technology Systems pursuant to a license agreement.

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

# Honeywell

95-SS Rev H 9/08  
Copyright ©2008 Honeywell International Inc.