

# PDT 8100 Series



Featuring Intel® XScale™ Technology

## MOBILE COMPUTERS

### Breakthrough Imaging Technology for Diverse Applications

The PDT 8100 Series ruggedized handheld computer from Symbol Technologies features a powerful miniature imaging system with Smart Focus technology for superior image quality and fast, accurate bar code data capture at the point of activity.

With built-in wireless local area network (WLAN) connectivity enabling Voice-over Wi-Fi communications, this Pocket PC-based mobile computer is the ideal solution for many real-time data management applications:

Market	Applications	User
Transportation and logistics	Direct store delivery Parcel delivery POD/pick-up Proof of condition	Route accounting professionals
Retail	Price verification Inventory counts Line busting Portable POS	Warehouse and In-store sales associates
Public safety	Citations and parking tickets Pedestrian and traffic stops Incident scene management Evidence tracking	Law enforcement officers Emergency medical technicians

### Real World Mobility Applications: Parcel Delivery

For parcel and post operations, the PDT 8100 XScale Series is the ideal tool to help streamline inefficiencies and improve productivity for mobile workers. This handheld's proven intuitive laser aiming system, self-illumination capability, Smart Focus and CCD sensor technology allows users to quickly aim and capture bar code data and still images. On the road or in the warehouse, delivery and route accounting professionals easily capture signatures, invoices and package proof of condition at each site with more accuracy to speed up the delivery process. Reducing the amount paperwork for each transaction and the time spent at each customer location also empowers your valued mobile field workers to deliver more packages per day.



### Mobile Computing Devices for Today and Tomorrow

The PDT 8100 Series from Symbol Technologies bridges the gap between pen-based and key-based mobile data collection solutions. You can deploy this handheld with full confidence in its superior bar code reading, image quality and ease of use. And you receive the added assurance that thousands of Symbol Pocket PC-based



### Features

Microsoft® Pocket PC platform

Rugged construction

WLAN communication

64 MB RAM, 64 MB ROM

3.5 in., 1/4 VGA color display

Intel® XScale™ PXA255 processor at 400 MHz

Keyboard and touchscreen data entry

Back-lit keyboard

IrDA port and RS-232 ports

User-accessible CompactFlash™ card slot

Miniature imaging engine

Integrated Voice-over-IP with Wi-Fi™-certified Spectrum24® IEEE 802.11b direct sequence WLAN

### Benefits

Offers a familiar, flexible computing platform for users and developers

Withstands harsh environments

Allows anytime, anywhere information access

Delivers ample storage capacity for data and applications

Increases productivity with large screen for indoor and outdoor use

Gives premium performance with support for video, audio and voice

Offers multiple modes of data entry for maximum efficiency

Improves usability under low-light conditions

Enables data transfer to peripherals such as printers

Gives flexibility for expansion, storage and functionality; protection against data loss

Combines advanced data capture, video, and digital photography

Communicates seamlessly, allowing simultaneous voice and data support on the same wireless backbone

devices are already successfully installed in a variety of mission-critical business applications throughout the globe.

For more information, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at [www.symbol.com/pdt8100](http://www.symbol.com/pdt8100)



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# PDT 8100 Series with Intel® XScale™ PXA255 Specification Highlights

Physical Characteristics	
Dimensions:	Overall: 8.5" L x 3.7" W x 1.8" D 216 mm L x 94 mm W x 46 mm D Grip Area: 3.0" W x 1.0" D 76 mm W x 25 mm D
Weight (Including battery):	16.5 oz./468 g (batch version) 18.0 oz./510 g (wireless version)
Drop Specification:	4 ft. (1.2m) to concrete
Tumble Specification:	.5M: 250 Cycles (500 drops)
Display:	3.5", 1/4 VGA (320 x 240 portrait) 64k color LCD display
Battery:	3.7V, 1950 mAh rechargeable Lithium-Ion
Environmental Sealing:	IP54 (windblown dust and rain)
Operating Temperature:	32° to 122° F/0° to 50° C (or better depending on the application)
Storage Temperature:	-13° to 158° F/-25° to 70° C
Humidity:	5% to 90% RH noncondensing
Electrostatic Discharge (ESD):	15 kVdc air; 8 kVdc contact
Expansion Capabilities:	Type II PC (Internal); Type II CF (user-accessible)
Front-lit Display:	CCFL
Back-lit Keyboard:	LED
Keypad:	28-, 37- and 47-key plus 2 side scan keys

Performance Characteristics	
CPU:	Intel® XScale™ PXA255 @ 400 MHz
Operating Platform:	Microsoft® Pocket PC 2002 Premium Edition
Memory:	64 MB RAM/64 MB ROM
Application Development:	Fully compatible with Microsoft SDK for Pocket PCs; Symbol SDK available to support bar code scanning
Communications:	IrDA 1.1; RS-232
Data Capture Options:	1D scan engine Omni-directional 1D and 2D imaging engine with still image capture DB-15 serial port (replaces scan or imaging engine)

Wireless Data Communications	
Wireless Local Area Network:	Optional IEEE standards-based Spectrum24 802.11b
Data Rate:	11 Mbps (direct sequence)
Frequency Range:	Country dependent; typically 2.4 to 2.5 GHz
Output Power:	100 mW U.S. and International
Security:	128-bit WEP, Kerberos
Antenna:	Internal (WLAN)
Wireless Personal Area Network:	Optional 3rd party Compact Flash Bluetooth™ module

Imager Engine Specifications	
Skew Tolerance:	± 50° from normal
Pitch Angle:	± 60° from normal
Roll:	360°
Ambient Light Immunity:	0-9,000 ft. candles (96,900 lux)
Scan Element:	Image Resolution: 640 x 480 pixels (VGA type CCD) Gray Level: 256 shades of gray Field of View (FOV): 33° Horizontal; 24° Vertical
Aiming Element:	Visible Laser Diode (VLD): 650 nm ± 5 nm VLD Power: 0.7 mW Maximum
Image Format:	Windows® bitmap (.bmp) Tag Image file format (.tif) JPEG file interchange format (.jpg)

Peripherals and Accessories	
Cradles:	1 slot serial charge cradle w/spare battery charging; 1 slot modem cradle w/spare battery charging; 4 slot Ethernet charge cradle; 4 slot charging cradle; Vehicle cradle (spare battery charge, terminal charger data Interface)
Communication and Charging Cables:	DEX cable; auto-charge cable; serial/charge cable; printer cables
Speaker/Microphone:	Integrated, plus headset jack, voice recognition capable
Magnetic Stripe Reader (MSR):	Snap-on serial connection swiipe reader attachment
4-Slot Universal Battery Charger (UBC2000):	Simultaneous charge of 1-4 batteries; requires adapters for PDT 8100 batteries
Other Accessories:	Snap-on land line modem; carrying case; portable printer (8.5 in. format) with terminal slot; trigger handle (requires trigger compatible terminal); headset

Regulatory	
Electrical Safety:	Certified to UL 1950, CSA C22.2 No 950, EN60950/IEC950
EMV/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA

EN410 CE



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