



## Product Communication



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### PW50 Mobile Workboard Printer Introduction

Designed specifically for use with Intermec CN3, CN3e, and CK61 mobile computers, the PW50 four-inch mobile workboard printer provides a convenient, integrated solution for DSD and field service applications. With its integrated DEX communications, fast print speed, Bluetooth connectivity, and optional integrated smart card and magnetic stripe readers, the PW50 provides everything the mobile worker needs to process transactions quickly and easily.

This integrated solution provides a single convenient bundle that can easily be transported or installed in a vehicle. Custom holders safely secure the handheld computer in the mobile printer, yet allow easy removal for scanning or data entry. Hand straps and shoulder straps are available to simplify moving the equipment between the truck and the point of delivery.

Drivers can easily keep batteries charged on both the printer and handheld computer: a single electrical connection through the vehicle mount or 12 volt adapter will charge both devices simultaneously.



On the following pages we will introduce the following concepts:

- Features
- Key Selling Points
- Media
- Configurations and Orderability
- Markets & Applications
- Software Applications and Development Tools
- Competition
- Documentation
- Field Marketing material

#### **Features**

- The PW50 is a rugged 4" direct thermal receipt printer that is designed for use with Intermec CN3, CN3e and

CK61 mobile computers.

- The PW50 provides a print resolution of 203 dpi and print speeds of up to 100 mm per second (4 ips).
- Convenient, integrated solution simplifies use in both portable and vehicle mount applications.
- Optimized for DSD, Home Delivery and Field Service applications.
- Integrated DEX communications allows easy connectivity to in-store computer system.
- Optional magnetic stripe and smart card readers.
- Patented power management maximizes battery life.
- High-speed electronics and high-voltage battery deliver fast print speeds.
- Standard communications include Bluetooth® and serial.

Note: The Serial Port allows RS-232 devices, such as PCs, to connect the PW50

- High capacity Li-ion battery (14.8V, 2200mAh, 32.6 watt hours)

#### *Understanding the Ports and Optional Card Reader*

The PW50 ports are located on the bottom of the printer.



**USB:** Allows USB devices to connect to the PW50.

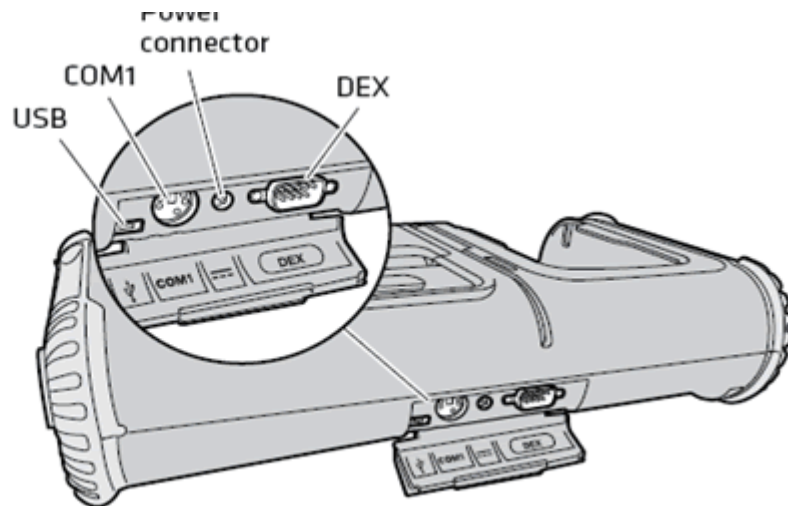
**COM1:** Allows RS-232 devices, such as PCs, to connect to the PW50.

**Power connector:** Connects the PW50 to an AC power supply.

**DEX:** Provides support for DEX/UCS. The DEX port allows two-way electronic transfer of invoice information between a vendor's mobile computer inserted in the PW50 and a store's inventory system.

**Card reader** (optional): Reads magstripe cards and smart cards.

**Note:** To use the DEX port or the card reader, you need to insert a mobile computer into the PW50.



#### **Key Selling points**

- ***Integrated printing solution to complement Intermec's mobile computers for DSD, Route Sales, and Field Service applications.***

One more reason to choose CN3/CN3E over the competition. The PW50 interfaces seamlessly with Bluetooth-enabled Intermec mobile computers including the CN3, CN3e, and CK61. Bluetooth connectivity allows the print job to be initiated whenever the handheld and printer are within wireless range of each other. Handheld battery and printer battery are charged simultaneously.



- ***Features optimized for DSD, Route Sales and Field Service.***

Optimized for the high-volume transaction environments of DSD, the Intermec PW50 printer's on-board capabilities make transaction processing fast and simple. Integrated DEX communications allows for easy connectivity to in-store computer systems. In addition, secure Bluetooth connectivity provides a safe transactional environment, and fast print speeds and optional integrated smart card and magnetic stripe readers for point-of-sale transactions make for quick, efficient transaction processing.

The PW50 is designed for ease of use. Paper loading, charging, and printing are fast and simple, enabling users to perform their job efficiently.

To maximize productivity, delivery and field service workers require tools that provide comprehensive capabilities in a form that is simple to use, and easy to carry. When used in conjunction with a CN3, CN3E and CK61 handheld computer, the PW50 meets these requirements by providing a single convenient bundle that can easily be transported or installed in a vehicle. Custom holders safely secure the handheld computer in the printer, while allowing for easy removal for scanning or data entry. Additionally, hand straps and shoulder straps are available to simplify the moving of equipment between the truck and the point of delivery.

- ***World class performance increases productivity.***

A unique design combines a high-voltage battery, patented techniques for power management, and high speed "desktop" electronics. This enables the PW50 to print the full-width of all pixels simultaneously and achieve best-in-class print speeds.

Patented power management of the robust 4-cell Li-Ion battery enables the PW50 to maintain consistent voltage to the print head for high quality printing, independent of the charge remaining in the battery. Battery capacity is designed to print 2 full rolls of receipts with 10% density text without the need to charge or change the batteries.

A large capacity media holder means you spend less time changing rolls.

With 64MB of on-board Flash memory and the ability to store a full Unicode font, the PW50 gives users the flexibility to easily use multiple languages. In addition, users can improve throughput by storing frequently-used formats and graphics on the printer, eliminating the need to download large files from the mobile computer.

- ***Rugged design to survive in the real world.***

The PW50 combines rubberized bumpers, extra-durable gears, extensive use of metal components in critical locations and a fully-integrated radio and antenna, enabling the printer to withstand the bumps and drops common to fast-paced mobile usage, resulting in lower TCO and less down time.

Drop tested to 1,2 m (4 ft), with and without handheld.

Operating temperatures rated to -20 to +50 °C.

- ***Flexible feature set allows printer to easily integrate into existing applications.***

The PW50 works with most widely available receipt media.

The ESC/P command language allows the use of Line Print language optimized for text and EZ Print language optimized for graphics and an extensive support for fonts and barcodes.

In addition, the backward compatibility with previous Intermec mobile printers allows an easy upgrade from existing receipt printing applications, resulting in less effort and less risk to migrate from current solutions.

## **Media**

The PW50 printer supports direct thermal receipt media.

Heavy duty print mechanism and high voltage printhead supports most widely available receipt media  
You can use roll or fanfold receipt media with the PW50 printer.



### *Media Specifications:*

Core inside diameter (ID) standard:	19 mm (0.75 in)
Core inside diameter (ID), with adapter:	10.2 mm (0.4 in)
Maximum roll outside (OD) diameter:	67.3 mm (2.65 in)
Media width, receipt:	111.5 mm (4.4 in)
Media length, receipt:	Continuous
Media caliper, receipt:	0.05 mm (0.002 in) to 0.165 mm (0.0065 in)

The following media will be available as quick ship direct from Intermec:

Printer	Width	Length	Part Number	Quality	Winding	Core Diameter	Outside Diameter	Rolls per box	Perforation	Maximum quantity
PW50	111,13	30,48 m	E22036-32	Thermal Top Receipt paper	out	19 mm	60 mm	32	N	64
PW50	111,13	43,18 m	E22977-32	Duratherm Eco Receipt paper	out	19 mm	60 mm	32	N	128

## **Configurations and Orderability**

All prices below are in Euros.

**PW50**

Usage: Applications requiring a one piece, four inch workboard receipt printer for use with CN3, CN3E, or CK61 handheld computer.  
 Base Configuration: Workboard printer with Bluetooth, DEX, and serial  
 Required accessories: Battery, AC adapter, or Vehicle Mount. Thermal paper

**Available**

PW50A010101	PW50A, BT, DEX, CN3/CN3E, E SC-P, MSR/SCR (Must order Battery Pack separately for portable application.)	1100.00	B
PW50A010102	PW50A, BT, DEX, CN3/CN3E, E SC-P, NO MSR/SCR (Must order Battery Pack separately for portable application.)	900.00	B
PW50A020101	PW50A, BT, DEX, CK61, E SC-P, MSR/SCR (Must order Battery Pack separately for portable application.)	1100.00	B
PW50A020102	PW50A, BT, DEX, CK61, E SC-P, NO MSR/SCR (Must order Battery Pack separately for portable application.)	900.00	B

**PW50 Accessories**

<b>Interface Cables</b>			
206-875-102	Cable, truck Power, 8' (RoHS)	18.00	B
206-875-106	Cable, truck Power, 16' (RoHS)	30.00	B
206-875-109	Cable, truck Power, 22' (RoHS)	40.00	B
226-215-101	Cable, DC power, 4' (between Vehicle dock and Truck Power Connection Cable)	30.00	B
226-215-102	Cable, DC power, 4', right angle (between Vehicle dock and Truck Power Connection Cable)	40.00	B
<b>Cables</b>			
075497	Cable, Serial data, PB42/PB50 RoHS	45.00	B
321-611-102	Cable, USB-A to USB-Mini B Plug, 2M RoHS	25.00	B
<b>Batteries</b>			
318-026-001	Battery Pack, 4 cell	85.00	B
<b>Power Supplies</b>			
074866	Adapter, Cig lighter, PB42/PB50 RoHS	30.00	B
851-082-003	Universal Power Supply, 12VDC 50W FW5012, Order country specific AC power cord separately. (RoHS)	55.00	B
852-915-001	Battery charger, Quad (Requires AC Adapter P/N: 851-082-003)	300.00	B
<b>Mounting Accessories</b>			
225-749-001	Vehicle Mount, PW50 + CN3	410.00	B
225-750-001	Vehicle Mount, PW50 + CN3E	410.00	B
225-751-001	Vehicle Mount, PW50 + CK61	410.00	B
<b>AC Power Cord</b>			
1-974029-020	Power Cord 220-250 VAC, UK	10.00	B
1-974027-025	Power Cord 220-250 VAC, Europe	10.00	B
586276	Power Cord 220-230 VAC, Liechtenstein, Switzerland	10.00	B
321-471-002	Power Cord 120-250 VAC, Italy	10.00	B
321-501-002	Power Cord 220-250 VAC, Denmark, Greenland, RoHS	10.00	B
321-502-002	Power Cord 250 VAC, India/S Africa, RoHS	10.00	B
<b>Holders, Hoisters, Belts and Straps</b>			
825-196-001	PW50 Handstrap	35.00	B
<b>Miscellaneous</b>			
1-110501-00	Cleaning Card, 4" (Box of 25)	25.00	C

(\*\*) Powered Vehicle Mounts are expected to be released in August

**Markets and Applications***Primary Applications for the PW50*

- Field Service
- Direct Store Delivery of consumer and industrial products
- Door to Door sales and route accounting

**Software Applications and Development Tools : Better Together**

*Coming Soon – Summer 2008*

- *Configlets* - Out of the box simplicity to configure mobile printers with Intermec handheld computers.
- *SmartSystems* - Remote management of all Intermec handhelds, scanners, and mobile printers all with the same system software.
- *Resource Tool Kit* - Software tools that speeds development of new applications and simplifies porting of existing applications.
- *PrintSet* - Software utility to provide easy font download and firmware upgrades.



**Competition**

***Better Together with Intermec handhelds***

The PW50 is the only Workboard Receipt printer available for market-leading CN3, CN3e and CK61 handheld computers. Workboard design simplifies transport and use of handheld computer and mobile printer. Single connection keeps handheld and printer charged.

Its dual-charging capability keeps both computer and printer batteries charged via a single electrical connection through the vehicle mount or a 12-volt adapter.

Currently only O'Neil sells a 4" workboard product, PrintPad which supports Symbol and HHP handhelds.

	Intermec PW50	O'Neil PrintPAD
		
Printing method	Direct Thermal	Direct Thermal
Max Print Area		
- Width	4.25" (108 mm)	4.1" (104 mm)
Print resolution (dpi)	203 dpi	203 dpi
Max print speed (ips)	4 ips (100 mm/s)	2 ips (50 mm/s)
Media type	roll or fanfold receipt paper	thermal papers (receipts, tickets), lined & lineless (option) labels
Media width	~ 4.4" (112 mm)	~ 4.4" (112 mm)
Media thickness	2 mil to 4.4 mil	
Media max roll size	OD: 2.65" (67 mm)	OD: 2.25" (57 mm)
Media roll core ID	0.75" (19 mm) or 0.4" (10 mm)	0.4" (10 mm)
Battery	Li-Ion, 14.8V, 2200mAh, 32.56 Wh	Li-Ion, 7.2V, 2 x 2200 mAh
Memory		
- RAM	16 MB	2MB
- Flash	64 MB	4MB
Printer Languages	ESC/P (Line Print, EZ print)	Line Printer, Easy Print
Font types	40 column, normal, bold, 80 column, normal, bold, 132 column, normal, bold	80 column
Graphics	Supports user-defined fonts, graphics, formats and layouts, including custom logos	Supports storage of graphics/logos in Flash memory and transient "print once" graphics
Barcode Symbolologies	Supports the printing of 1D bar codes and 2D symbolologies	Supports the printing of 1D bar codes and 2D symbolologies
Comm Interface		
- RS232	Yes (115K) (External Dev.)	Yes (upto 460.8 Kbps)
- USB	Yes	
- BT	Yes (Class 1, 100 m)	Yes v 1.2
Environment		
- Op. Temp	-20 to 50 °C (-4 to 122 °F)	-20 to 50C (-4 to 122F)
- St. Temp	-30 to 70C (-22 to 158F)	-40 to 70C (-40 to 158F)
- Charging Temp	0 to 40C (32 to 104F)	5 to 40C (41 to 104F)
- Humidity	10 to 90%	10 to 90%
- IP rating	IP20	
- Drop test	4'	4'
Size (H x W x D)	180 X 310 X 80 mm	340 X 248 X 76 mm (for MC9000)
Weight	1.69 kg (59.5 oz) w/ battery	1.6 kg ( 3.5 lbs ) w/ battery & paper
<b>Options &amp; Accessories</b>		
Handstrap	Yes	Yes
Shoulder strap	Yes	Yes
Vehicle mount	Yes	
Vehicle charger	Yes	
Cigarette lighter adapter	Yes	Yes
AC charger	Yes	Yes
Ext. battery charger	Yes	
Four-bay battery charger	Yes	
Truck Power Cable + Adapter	Yes	
Holster/case	Yes	
Forklift power cable	Yes	
Other	Holder for CNG/CN3E or CK61 (standard) DEX (standard) MSR / SCR (optional)	3" spindle bracket, Truck-Mount Bracket, DEX (Standard), Magnetic Stripe Card Reader (Optional)

## Documentation

Please refer to the following web link to obtain the latest product information

[Latest Product Information](#)

and to the following web link to obtain the latest updated manual information

[PW50 Manual Update](#)

where you will find:

- Getting Started Guide
- Product Manuals
- Accessory Manuals

#### **Field Marketing material**

You can also find a number of good pictures of the PW50 on our image library

[Image Library PW50](#)

#### **Documents**

- [Product Profile](#) (Please follow this link to download)
- [Sales Power Point Presentation](#) (Please follow this link to download)
- Frequently Asked Questions (FAQ) (Attached)
- [Accessories Solution Guide](#) (Please follow this link to download)

If you have any questions regarding this announcement please contact your local representative or myself.

**Francesco Assini**  
Regional Marketing Manager Printers

Email: [francesco.assini@intermec.com](mailto:francesco.assini@intermec.com)

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