

## Product profile

# PW50

## Mobile Workboard Printer



- Perfect complement for Intermec CN3, CN3e and CK61 mobile computers
- 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 includes Bluetooth® and serial

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.

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.

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.

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.

The PW50 combines rubberized bumpers, extra-durable gears, and a fully-integrated radio and antenna, enabling the printer to withstand the bumps and drops common to fast-paced mobile usage.

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

**Physical Characteristics**

**Height:** 180 mm (7.0 in)  
**Width:** 310 mm (12.2 in)  
**Depth:** 80 mm (3.2 in)  
**Weight:** 1688 g (59.5 oz) with battery

**Environmental**

**Operating temperature:** -20°C to 50°C (-4°F to 122°F)  
**Storage temperature:** -30°C to 70°C (-22°F to 158°F)  
**Charging temperature:** 0°C to 40°C (32°F to 104°F)  
**Humidity:** 10 to 90% (non-condensing)  
**Electrostatic Discharge:**  
 Contact Discharge: +/-8kV  
 Air Discharge: +/-15kV  
**Sealing:** IP20  
**Drop spec:** Survives 1.2 m (4 ft) drops to concrete

**Power**

**Battery:** Rechargeable 14.8V Li-Ion, 2200mAh (4 cells); 32.56 watt hours; Battery must be ordered separately.  
**Recharging:** 6 hours maximum  
**AC Adapter:** 50 watts  
**Voltage Range:** 12V +/- 5%

**Memory**

**RAM:** 16MB  
**Flash:** 64MB

**Standard Communications**

RS-232 Serial (115k)  
 Bluetooth® (Class 1)  
 DEX / UCS

**Optional Features**

Magnetic Stripe Reader and Smart Card Reader (EMV level 1 certified)

**Print Speed and Resolution**

4 IPS (100 mm/s)  
 203 DPI (8 dots/mm)  
 Maximum Print Width 108 mm (4.25 in)

**Media**

Supports receipt media in both top coated and uncoated paper in continuous roll stock only.  
**Type:** Direct thermal fanfold and receipt.  
**Media width:** 111.5 mm (4.4 in)  
**Media length for fanfold:** 25.4 mm (1.0 in) min; 609.6 mm (24 in) max  
**Media length for receipt:** Continuous  
**Media thickness for receipts:** 2 mil (0.05 mm) to 4.4 mil (0.112 mm)  
**Core ID:** 19 mm (0.75 in) standard, 10mm (0.40 in) optional  
**Capacity:** 67.3 mm (2.65 in) max. roll diameter (approximately 200", depending on media thickness)

**Note:** Print Speed and Environmental performance are specified for typical receipt printing applications with 10% density text.

**Software Programming Language**

ESC-P command sets (Line Print and EZ Print)

**Character Sets**

West European Latin No.1 and 9: Danish, Dutch, English, Faeroese, Finnish, French, German, Icelandic, Irish, Italian, Norwegian, Portuguese, Spanish, Swedish  
 East European Latin No.2: Albanian, Czech, English, German, Hungarian, Polish, Rumanian, Serbo-Croatian, Slovak, Slovene  
 Cyrillic: Bulgarian, Byelorussian, English, Macedonian, Russian, Serbo-Croatian, Ukrainian  
 Arabic  
 Greek  
 Hebrew  
 U.S. Standard  
 Europe multilingual  
 Code Page requirements for Asian characters

**Font types**

40 column, normal, bold, 80 column, normal, bold, 132 column, normal, bold

**Graphics**

Supports user-defined fonts, graphics, formats and layouts, including custom logos

**Barcode Symbolologies**

**1D:** Codabar, Code 39, Code 128, Code 128 Subset A-C, EAN-8, EAN-13, EAN-128 Subset C, Interleaved 2 of 5, UPC-A  
**2D:** PDF 417

**User Interface**

**LEDs and two external buttons:** Standby (Power), Paper Feed  
 Four audio status indicators: Error alert, hardware change alert, button press alert and startup alert

**Accessories**

Hand strap, shoulder strap, vehicle mount, cleaning card, battery, four-bay battery charger, A/C adapter, A/C power cord, truck power cable adapter, truck power cable, forklift power cable, serial cable.

**Approvals**

North America UL and cUL Listed, UL 60950-1  
 Europe - GS Licensed, EN 60950-1  
 Mexico NYCE Certified, NOM 19  
 Other Countries IEC 60950-1  
 EMC Approvals  
 USA FCC Title 47, Part 15, Subpart B, Class B;  
 Europe EMC Directive (EN55022 Class B + EN55024) ; CISPR22

**Warranty**

One year; additional Medallion service packages available

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