Product profile



# PB21/31/51

## Rugged Mobile Receipt Printers

- The industry's fastest 2,3 and 4 inch rugged mobile receipt printers
- Built rugged to survive real-world mobility in field service, route accounting and point-of-service applications
- 20-30% faster time-to-receipt and -invoice printing than competitive products
- Low cost of development and support
- Paper sensors and standard LCD display minimize lost transactions and wasted time troubleshooting
- Seamless integration with Intermec computers and other mobile devices
- Secure wired and wireless communication options: Bluetooth®, 802.11 b/g, USB, Serial
- Optional integrated card reader supports latest EMV and ISO payment standards
- SmartSystems® remote device management reduces support needs

The fastest choice for rugged mobile receipt printing, the PB21, PB31 and PB51 deliver a clear advantage for workers on-the-go who need to produce invoices, delivery receipts, service estimates, mobile point-of-sale receipts, inventory management schedules and sales orders. Whether workers are using them as stand-alone printers, or pairing them with mobile computers, the PB21/31/51 increase operator efficiency. The printers' large memory store reduces system latency and supports fast, high quality production of the graphically complex receipts and invoices that are common in route accounting, transportation and logistics, retail and field service applications.

The PB21/31/51 printers boast more than double the memory of competitive models, and feature uniquely optimized print mechanisms, enabling them to deliver receipts and invoices 20 to 30% faster* while also easily handling complex graphics such as logos. Mil-Spec levels of durability and lightweight design contribute to an overall mobile receipt printing package that delivers measurable improvements in ownership costs and worker productivity.

Fast-paced work demands reliability and predictability. With on-board sensors that detect notch, black mark, end-of-roll, and door open status (all communicated via the intuitive LCD display) the PB21/31/51 printers ensure workers always know what's going on with their printers and help prevent them from losing transactions or wasting time troubleshooting.

The rugged PB receipt printer family is built on a common electrical and mechanical foundation, and integrates closely with Intermec mobile computers and software including Intermec Browser (IB) and Intermec SmartSystems. The integrated approach provides efficiencies in development, deployment and support, and optimizes performance. Intermec SmartSystems provides remote monitoring and diagnostics to networked devices so problems can be resolved quickly. Shared accessories add flexibility and reduce spares inventory and costs. Intermec media options ensure consistently high print quality across a range of applications.

Leveraging the Intermec platform gives companies a solution that can grow with their needs. As "smart" printers, the rugged PB printers can host stand-alone applications developed through Intermec Fingerprint programming to address custom requirements today or in the future, without upgrading hardware.

The printers' comprehensive options meet a range of application needs. Integrated magnetic strip reader and EMV-compliant smart card reader options, drop-in media

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* Based on tests conducted by Intermec Technologies 05-06/09. For a copy of the test data, please contact Intermec Printer Marketing.

loading and adjustable media holders enable workers to easily change tasks without changing equipment. A choice of secure wired and wireless interfaces (802.11 b/g, Bluetooth, Serial, USB) allows them to select the one that fits their environment.

The printers' rugged design means performance you can depend on, day after day. Unique mechanical design elements and the largest battery capacity in their class help these printers maintain productivity in the most extreme environments. The printers have a 5 foot, 26 time drop spec (6.5 foot, multiple times with optional protective case); IP54 seal rating; and off-road vehicle-strength shock and vibration specs, minimizing repairs and downtime. When issues do arise, Intermec Medallion Complete service contracts deliver peace-of-mind and insurance against unbudgeted repair costs.

**Physical Characteristics**
**PB21:**
**Width:** 101 mm (4 in)
**Height:** 176 mm (6.9 in)
**Depth:** 71 mm (2.8 in)
**Weight (with battery):** 678 g (23.9oz)

**PB31:**
**Width:** 127 mm (5 in)
**Height:** 182 mm (7.2 in)
**Depth:** 81 mm (3.2 in)
**Weight (with battery):** 828 g (29.2oz)

**PB51:**
**Width:** 160 mm (6.3 in)
**Height:** 174.5 mm (6.9 in)
**Depth:** 78.8 mm (3.1 in)
**Weight (with battery):** 1189 g (42.0 oz)

**Environment**
**Operating temperature:** -15°C to 50°C (5°F to 122°F)
**Storage temperature:** -30°C to 70°C (-22°F to 158°F)
**Humidity:** 10 to 90% (non-condensing)
**Sealing:** IP54 (excludes paper path)
**Drop spec:** 1.5m (5 ft.) drops to concrete; 26 times including all corners and sides (Mil Std 810F procedure)
**PB21/31**: 2m (6.5 ft) multiple drops to concrete with optional protective case

**Power**
**PB21/31:** 7.4V Li-Ion, 2.3 Ah, rechargeable battery (typical)
**PB51:** 14.8V Li-Ion, 2.2 Ah, rechargeable battery

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

**Standard Communications**
RS-232 Serial
USB v.2.0

**Optional Communications**
Bluetooth® (v2.0, Class 1)
802.11b/g (PB21/31 only)

**Wireless Security**
**Authentication & Encryption Options:** WEP (64 and 128 bit) LEAP; WPA-PSK (TKIP / RC4); WPA2/802.11i-PSK (CCMP / AES);EAP-TLS, -TTLS, -PEAP, -FAST

**Print Speed and Resolution**
4ips (101.6mm/sec)
203 dpi (8 dots/mm)

**Print Technology**
**Printhead:** Direct thermal

**Card Reader (PB21/31 Option)**
3 track magnetic stripe reader supports ANSI, ISO 7811, AAMVA, CA MVA, RAW formats
EMV-compatable smart card reader is EMV 2000, ISO 7816, CCID compliant

**Media**
**Type:** Labels or receipt media
**Intermec Media:**
**Labels and Tags:** Duratherm II, Duratherm III, Duratherm NIR, Duratherm III IR, Duratherm III Synthetic, Duratherm II, 5-mil Tag
**Receipts:** Duratherm Receipt II, Duratherm Receipt III
**Media Width:**
**PB21:** 57mm (2.25 in)
**PB31:** 83.8mm (3.3 in)
**PB51:** 111.5 mm (4.39 in)
**Core ID:** 19mm (0.75 in) standard
**Max OD:**
**PB21:** 57.2mm (2.25 in)
**PB31:** 67.3mm (2.65 in)
**PB51:** 67.3mm (2.65 in)

**Software**
**Programming Languages:**
IPL, Fingerprint, ZSim (ZPLII Simulation), ESC-P, DSim (DPL), CSim (CPCL)

**Character Sets**
**Standard:** English and Latin
**Optional:** Western European, ASCII, CodePage 850, Central European, Cyrillic, Latin, Greek, Turkish, Hebrew, Arabic, Baltic, Baltic RIM, Vietnamese, Thai, Simplified Chinese, Traditional Chinese, Korean, UTF-8

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

**Barcode Symbologies**
All major 1D and 2D symbologies are supported.

**User Interface**
LCD and 4 buttons: standby, paper feed, setup, info
Four audio status indicators: error alert, hardware change alert, button press alert and startup alert.

**Accessories**
Hand strap, shoulder strap, belt clip, protective case, cart mount, vehicle mount, battery pack, four-bay battery charger, A/C adapter, A/C power cord, truck power cable adapter, truck power cable, forklift power cable, serial cable

**Safety Approvals**
**North America:** UL and cUL Listed, UL 60950-1
**Europe:** D Mark, EN 60950-1; CE marked
**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

Intermec SmartSystems™


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