PB21, PB31 & PB51
Rugged Mobile Receipt Printers

A speedy 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 used as a stand-alone printer, or paired with mobile computers, the PB21, PB31 and PB51 are built to increase operator efficiency.

PB series printers feature uniquely optimized print mechanisms, enabling rapid invoice printing. Mil-spec levels of durability and a lightweight design contribute to an overall mobile receipt printing package that reduces ownership costs and boosts 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 an intuitive LCD display), PB series printers are easy to operate without the user manual, preventing unnecessary troubleshooting, wasted time and lost transactions.

As with other Honeywell Smart Printers, PB series can host standalone applications developed in Honeywell Fingerprint programming language, to address custom requirements today or in the future, without upgrading hardware.

**FEATURES & BENEFITS**

- **Built to survive** real-world mobility demands, with a 1.5 m (5 ft) drop spec to concrete.
- **Sophisticated sensors** and intuitive LCD display minimize wasted time troubleshooting.
- **Seamless integration** with Honeywell mobile computers and other mobile devices.
- **Secure wire or wireless** communication options, including Bluetooth®, WLAN, USB, and serial.
- **Optional integrated** card reader supports latest EMV and ISO payment standards.

**Speedy and rugged, the PB series is built to thrive in field service, route account and point-of-service applications.**

An integrated magnetic stripe reader and EMV-compliant smart card reader options, drop-in media loading and adjustable media holders enable workers to easily change tasks without changing equipment. Available in either secure wired or wireless configurations, PB series fit easily into a variety of network infrastructures.

Underscored by a rugged design, PB series printers deliver top-notch dependability—day after day. Unique mechanical design elements and a large-capacity battery help these printers to maintain productivity in challenging environments.
PB21, PB31 & PB51 Technical Specifications

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 (23.9 oz)

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

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: IP64 (excludes paper path)
Drop spec: 1.5 m (5 ft.) drops to concrete; 26 times including all corners and sides
(Mil Std 810F procedure)

PB21/31: 2 m (6.5 ft) multiple drops to concrete with optional protective case

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

MEMORY
RAM: 16 MB
Flash: 64 MB

STANDARD COMMUNICATIONS
RS-232 Serial
USB v.2.0

OPTIONAL COMMUNICATIONS
Bluetooth® (v.2.0, Class 1)
802.11b/g (excludes ETSI models)
802.11b/g/n Dual-Band (2.4 GHz) & 802.11a (5 GHz) (ETSI models only)

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

PRINT SPEED AND RESOLUTION
4 ips (101.6 mm/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-compatible 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: 57 mm (2.25 in)
PB31: 83.8 mm (3.3 in)
PB51: 111.5 mm (4.39 in)

Max OD:
PB21: 57.2 mm (2.25 in)
PB31: 67.3 mm (2.65 in)
PB51: 67.3 mm (2.65 in)

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

SOFTWARE
Programming Languages: IPL, Fingerprint, ZSim (ZPLII Simulation), ESC-P, DSim (DPL), CSim (CPCL)
Applications:
PrintSet Configuration Utility; Bartender Ultralite Labeling Software; SmartSystems™ Foundation Console/Server Software; Bootloader Utility; Drivers & Support for Linux/BSD (1.1,1.2), SAP, & Wavelink® Avalanche; InterDriver Printer Drivers for Microsoft® Windows® operating system

WARRANTY
One year; additional Medallion service packages available

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 (23.9 oz)

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

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: IP64 (excludes paper path)
Drop spec: 1.5 m (5 ft.) drops to concrete; 26 times including all corners and sides
(Mil Std 810F procedure)

PB21/31: 2 m (6.5 ft) multiple drops to concrete with optional protective case

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

MEMORY
RAM: 16 MB
Flash: 64 MB

STANDARD COMMUNICATIONS
RS-232 Serial
USB v.2.0

OPTIONAL COMMUNICATIONS
Bluetooth® (v.2.0, Class 1)
802.11b/g (excludes ETSI models)
802.11b/g/n Dual-Band (2.4 GHz) & 802.11a (5 GHz) (ETSI models only)

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

PRINT SPEED AND RESOLUTION
4 ips (101.6 mm/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-compatible 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: 57 mm (2.25 in)
PB31: 83.8 mm (3.3 in)
PB51: 111.5 mm (4.39 in)

Max OD:
PB21: 57.2 mm (2.25 in)
PB31: 67.3 mm (2.65 in)
PB51: 67.3 mm (2.65 in)

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

SOFTWARE
Programming Languages: IPL, Fingerprint, ZSim (ZPLII Simulation), ESC-P, DSim (DPL), CSim (CPCL)
Applications:
PrintSet Configuration Utility; Bartender Ultralite Labeling Software; SmartSystems™ Foundation Console/Server Software; Bootloader Utility; Drivers & Support for Linux/BSD (1.1,1.2), SAP, & Wavelink® Avalanche; InterDriver Printer Drivers for Microsoft® Windows® operating system

WARRANTY
One year; additional Medallion service packages available

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.
For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.