PA45S / PA45L

Ultra-Rugged Portable Label and Receipt Printer

PA45 Mobile Printer is designed to deliver fast, reliable, and high-quality mobile printing for today's demanding field workforce. Engineered for mobility, durability, and seamless connectivity



PA45 empowers professionals to print receipts, invoices, labels, tickets, and delivery documents directly at the point of service, improving efficiency and customer satisfaction.

Built on the printer edge platform, PA45 is an easy to use, highly configurable and adaptable mobile printer. With a fast-printing performance and rugged yet light weight design. PA45 is easy to be integrated in multitude of warehousing and T&L use cases

Advanced wireless connectivity options enable effortless integration with smartphones, tablets, handheld computers, and enterprise mobility solutions. Fast pairing and stable communication help users stay productive while minimizing downtime. The PA45 also supports modern mobile workflows, allowing organizations to streamline operations and reduce paperwork by bringing printing capabilities directly to the point of need.

The printer delivers crisp, professional-quality output with rapid print speeds, enabling users to complete transactions quickly and accurately. From proof-of-delivery documentation and route accounting receipts to inventory labels and service reports, the PA45 helps organizations improve accuracy, accelerate workflows, and enhance customer experience.

FEATURES AND BENEFITS

RUGGED MOBILE DEVICE

Ultra-rugged: survives 2 m (6.6 ft) drops and 1,000 0.5 m (1.6 ft) tumbles, has an IP54 rating for dust and moisture ingress, and operates over a wide temperature range.

SMART

Operational Intelligence solution provides analytics to help manage, track, and optimize printer assets, enabling proactive maintenance and replacement.

PRINTER EDGE

Brady Printer Edge is a smart, connected printer platform with easy setup, quality output, enhanced security, and simplicity of a single software toolkit for your printer network.

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PA45 Mobile Printer Technical Specifications

DATASHEET: PA45

PHYSICAL CHARACTERISTICS

PA45S/L – 4 inches:

Dimensions (H x W x D):
PA45S: 156.5mm × 159mm × 73 mm
(6.2 in × 6.3 in × 2.9 in)

PA45L: 163.5mm × 159mm × 82 mm
(6.4 in × 6.3 in × 3.2 in)

Weight: (with battery, no media)

PA45S: 935g

PA45L: 945g

PRINT SPECIFICATION

Method: Direct Thermal
Resolution: 203 dpi (8 dots/mm)
Print Speed: Up to 5 ips (127mm/s)
Print Length:
Non-RFID: 190 inches
RFID: 8 inches
Maximum Print Width: 108mm (4.25 in)
Sensing: Top side black mark, Bottom side black mark, Gap, Label present, Accelerometer
Memory: 512 MB SDRAM, 4 GB Flash Memory
Display: Color TFT LCD

MEDIA

Media Roll Width: 51 mm to 111 mm
Media Types: Tags, receipt paper, labels, linered and linerless labels, RFID labels
Maximum Roll Capacity OD:
PA45S: 58 mm (2.28 in)
PA45L: 68mm (2.68 in)
Core Sizes: 10.16 mm (0.4 in), 19 mm (0.75 in), or 25.4 mm (1.0 in) inside diameter
Media Thickness:
Non-RFID: 0.05 mm (2 mil) to 0.16 mm (6.3 mil)
RFID: 0.08 mm (3.2 mil) to 0.19mm (7.5mil)

POWER SOURCE

Batteries: 7.2V Lithium-ion (Li-ion)
Standard: 6800mAh with battery health LED indicator
Option: 4900mAh with battery health LED Indicator
SMART Battery: to SBS Rev 2.0
Hot-Swappable Battery: Maintains wireless Bluetooth and Wi-Fi connection up to 20 seconds
Charger: Type C PD3.0
Only charge your battery pack with a Brady approved charger
Charge Time (Typical):
≤4 hours charge under conditions
Battery Eliminator: SKU optional for printers used permanently inside a vehicle

ENVIRONMENTAL

Environmental Sealing: IP54 per IEC 60529
Drop Spec: 6 feet (1.8m) drop per MIL-STD-810H, Method 516.8
Tumble Spec: 1,000 cycles at 0.5 m (1.6 ft) per IEC 60068-2-32 specification
Operating Temperature: -20°C to 55°C (-4°F to 131°F)
Storage Temperature: -30°C to 65°C (-22°F to 149°F)
Charging Temperature: 0°C to 40°C (32°F to 104°F)
Humidity: 10% – 90%, non-condensing

COMMUNICATIONS

USB 2.0: Includes On-The-Go (OTG) capabilities for scanner, scale, and keyboard input

NFC: For pairing

Bluetooth: Bluetooth 5.4+HS, BLE (Classic and BLE dual radio mode); serial port profile, security modes 1-4, encryption 1-3e, Apple iOS compatible

Network Standard: Wi-Fi 6/6E (802.11 a/b/g/n/ac/ax)

Wireless Access Modes: Infrastructure and Soft AP

Authentication: LEAP, EAP-PEAP, EAP-FAST, EAP-TTLS, EAP-TLS

Internet Protocols Supported:

UDP/TCP, DHCP, BootP, FTP, FTPS, SFTP, TFTP, Telnet, LDP, SNMP, etc. SKU optional for Bluetooth Only or Dual (Bluetooth + WLAN)

Roaming: support for 802.11r fast roaming technology

RFID: RFID is available on the PA45. Contact local representatives for availability in particular region

BARCODES/FONTS/GRAPHICS

Barcode Symbology: All major 1D and 2D symbology is supported

Standards Supported: Shipping label, Global Transport Label

Fonts: Monotype font engine

Non-Latin fonts available through WTLE

Graphics: Supports PCX, PNG, GIF and BMP file formats; other formats supported with Label Generation Tools

SOFTWARE

Printer Command Languages: Fingerprint (FP), Direct Protocol (DP), Intermec Printer Language (IPL), ZSim2, DPL, XML-enabled, PDF, CSim, EZ-Print, Smart Printing, Esim, TPCL

Applications/Drivers: InterDriver Windows printer driver, CUPS driver for Linux, label design and print package

Smart Printing Languages: C# for Printers: Smart Printing Developer Resource Kit; write apps with .NET compatible development environments

Configuration and Device Management

Support: PrintSet6 (Windows), Print Set MC (Android™ and Apple® iOS)

Remote Management: Operational Intelligence, SOTI® Connect

Software Development Kit: Android 4 and above iOS 11 and above, JAVA based application

USAGE FEATURES

LCD Display plus navigation button:

Media: Drop-in/easy-to-load media, adjustable media arms, media arm locker for variable roll widths, 4 in printer fan fold slot, dual tear bar for easy media dispensing (Non-Peel off SKU)

Proactive Maintenance: Sensors for reporting printer usage information (battery, printhead, environmental) and management console

REGULATORY APPROVALS

RoHS Compliant, CE (EN55032 Class B), FCC Class B, CB, cTUVus, ENERGY STAR™ certified etc.
Others can connect local sales

PRODUCT WARRANTY

Two-year factory warranty

*For use in PA45 Series printers equipped with linerless, peeler and RFID options

Features are subject to availability; specifications are subject to change without notice

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