



# Zebra® P4T™/RP4T™ Printer



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## The world's first mobile RFID printer

Zebra's P4T/RP4T is the first-ever mobile thermal-transfer printer with optional UHF RFID printing and encoding capability. The easy-to-carry P4T/RP4T printer enables users to print bar code labels and receipts where and when required on long-lasting and high-endurance thermal-transfer media – resulting in enhanced data and asset-tracking accuracy and improved workforce efficiency.

## Thermal-transfer longevity

When paired with tested genuine Zebra thermal-transfer supplies, the P4T/RP4T printer produces 2- to 4-inch-wide labels or receipts that withstand harsh environments and offer archival longevity ranging from 18 months to more than 10 years.

## UHF RFID capability

With the option to add the RFID capability, the P4T/RP4T printer is ideally suited to point-of-application UHF EPC Gen 2 smart-labelling applications for compliance or business improvement now – or in the future.

## Advanced technology for ease of use and productivity

- Advanced wireless: Bluetooth® 2.0, secure 802.11b/g
- Serial/USB available as standard
- Smart operation – intelligent battery monitoring and auto-adjusting ribbon cartridge
- Rugged for outdoor use – IP14 dust and water-resistance rating; IP54 dust- and water-resistance with optional soft case
- Fast, easy media and ribbon loading
- Comfortable to wear and hold
- Easy to operate
- Large LCD screen for operator interaction and real-time status reporting

For optimal printing quality and printer performance across our product line, Zebra strongly recommends the use of genuine Zebra supplies as part of the total solution.

Both the P4T and RP4T are designed to work only with genuine Zebra smart batteries and smart-ribbon cartridges, thus maximising safety, ease of use and print quality.

## Ideal for:

- **Manufacturing and warehousing**
  - Receiving – inventory labelling
  - Shipping – picking labels
  - Work-in-process labelling
  - Lifetime product tracking
- **Transportation and logistics**
  - Shipping labels for large items
  - Cross-docking
  - Container labelling
- **Healthcare**
  - Blood-bag labels that meet ISBT-128 standards
  - Specimen labels
- **Retail**
  - Outdoor sales item labelling
  - Cold-store bulk item labelling
- **Mobile-workforce applications**
  - Label attachment at remote locations (repair history)
  - Utility labelling of outside plant
  - Durable and archivable receipts
  - Asset-tagging
  - Inventory control
  - Facilities management
  - Crime evidence bar code labels

# SPECIFICATIONS AT A GLANCE\*

## ZEBRA P4T/RP4T PRINTER

### Standard features

- 8MB flash/16MB SRAM memory
- USB 2.0 and Serial connection
- 32-bit processor
- Thermal-transfer or direct-thermal printing modes (with auto-sensing)
- Large LCD
- Fanfold support
- OpenACCESS™ design for easy media and ribbon loading
- Tolerant of multiple drops from up to 1.52m (5') to concrete
- Sensor detects gap, black bar, media, media width, door ajar and ribbon
- Smart battery and cartridge
- Shoulder strap

### Printer specifications

#### Resolution:

- 8 dots per mm/203dpi

#### Memory:

- 8MB flash/16MB SRAM

#### Maximum print width:

- 104mm/4.09"

#### Print speed:

- Direct thermal 76.2mm/3" per second
- Thermal transfer 38.1mm/1.5" per second

### Media characteristics

#### Maximum label and liner width:

- 104.78mm/4.125"

#### Maximum media roll size:

- 66mm/2.6" O.D. on a 19.1mm/0.75" I.D. core (non-RFID media)
- 66mm/2.6" O.D. on a 34.9mm/1.375" I.D. core (RFID media)

#### Media thickness:

- 0.08mm to 0.216mm/3.2 mil to 8.5 mil

#### Media types:

- Receipts, tags on either synthetic or paper labels

### Ribbon characteristics

#### Ribbon type:

- Resin or wax/resin

#### Standard length:

- 30m/98.4"

#### Ratio:

- Approximately 2:1 media to roll to ribbon depending on media thickness

#### Ribbon width:

- 110.0mm/4.33"

### Operating characteristics

#### Environmental

- DT operating temp.: -20°C/-4°F to 50°C/122°F
- TT operating temp.: 0°C/32°F to 45°C/113°F
- Storage temp.: -30°C/-22°F to 65°C/149°F
- Operating humidity: 10% to 90% non-condensing

#### Electrical

- 7.4V, 4200mAh rechargeable Li-Ion smart battery

### Agency Approvals

#### EMC:

- FCC Part 15 and EN 55022 Class B limits
- Radio approval for Bluetooth, 802.11b/g & RFID
- FCC, Industry Canada

#### Safety:

- IEC 60950, NRTL marking for US & Canada

#### EU:

- EMC, LVD, R&TTE Directives

### Physical characteristics

#### Width:

- 177.8mm/7"

#### Height:

- 218.4mm/8.6"

#### Depth:

- 76.2mm/3"

#### Weight:

- 1.32kg/2.9lb with ribbon and battery

### Options and accessories

#### Wireless connectivity options

- Bluetooth 2.0
- 802.11b/g

#### RFID Option

- Supports passive EPC Class 1 Gen 2 protocol
- Fully integrated ThingMagic® UHF RFID Reader/Encoder
- RFID ZPL® commands allow ease of RFID setup with maximum flexibility
- Variable RFID read and write power settings to support a wide variety of inlays
- RFID counters keep track of good and bad labels
- Verification and voiding of inlays to prevent usage of bad labels
- Interoperable with a wide variety of Gen 2 labels and tags
- Supports extended memory features of newer Gen 2 inlays

- AC adaptor
- AC single charger
- Quad battery charger
- RAM® mounting hardware for vehicles or forklifts
- Heavy-duty forklift mount
- DC adaptor
- In-vehicle mobile charger
- Nylon soft case
- Spare battery
- Cables
- Fanfold support

### ZebraLink™ Solutions

#### Software/Networking/Firmware

- CPCL
  - ZPL\*\*
  - WML for display programming
- \*\*ZPL required for RFID support

### Bar code symbologies

- **Linear bar codes:** Codabar (NW-7), Code 39, Code 93, Code 128, EAN-8, EAN-13, FIM Postnet, Interleaved 2-of-5, MSI, Plessey, UCC/EAN128, UPC-A, UPC-E, 2 and 5 digit extensions
- **Two-dimensional:** Aztec Code, Data Matrix, GS1 DataBar™ (RSS), MaxiCode, PDF417, QR Code
- **Bar code ratios:** 1.5:1, 2:1, 2.5:1, 3:1, 3.5:1

### Fonts and graphics

#### Character sets

- Scalable text feature
- Standard resident fonts\*\*\* can be rotated in 90° increments
- International character set support

\*\*\*Contains UFST® from Monotype Imaging, Inc.

#### Graphic features

- Supports user-defined fonts, and graphics and logos

### Communication and interface capabilities

- Communication interface: USB 2.0 and Serial
- Wireless: Bluetooth, short-range radio-frequency connectivity
- Profiles supported: SPP
- WLAN (802.11b/g) support for the following security protocols: Airbeam Safe VPN, EAP-TLS, EAP-TTLS, LEAP, PEAP, EAP-FAST. WPA with the protocols listed and WPA2-PSK (AES or TKIP)

\*Specifications subject to change without notice.

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