RW™ series

ZEBRA TECHNOLOGIES

SEE MORE. DO MORE.

Mobile printing for businesses on the go

Printers that travel with you

The RW series printers are designed specifically for the mobile workforce. User-friendly features and design allow the mobile user to print invoices and receipts quickly and efficiently – minimising downtime and maximising return on investment.

Versatile and rugged

With a compact ergonomic design, the RW series printers can be easily carried on the shoulder or belt.

For vehicle-based applications, Zebra's intelligent in-vehicle charging options provide further flexibility for the mobile worker. Uniquely designed to endure extreme temperatures and weather conditions (IP54-rated), the RW series printers are also damage-resistant to multiple drops whilst ensuring reliable performance.

Key features

- Bluetooth® or 802.11b/g wireless options
- IP54-rated for dust- and water-resistance
- Damage-resistant to multiple 1.8-metre drops to concrete
- Optional magnetic stripe and EMV®-certified smart-card readers
- Optional vehicle cradle for docking and charging

Applications include:

- **Field sales:** invoices, proof of delivery
- **Field service:** inspection reports
- **Direct store delivery:** goods receipt, proof of delivery, order acknowledgement
- **Government & public safety:** parking and law-enforcement ticketing/fines, transportation ticketing

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Get the most out of your Zebra printer: put genuine Zebra™ supplies in!

Zebra offers a wide range of supplies for RW series printers, all made to a high standard and suitable for a variety of applications.

- Manufactured exclusively for Zebra® printers
- Laboratory-tested for optimum performance
- Proven to minimise wear and tear on printheads

For more information, visit **www.zebra.com**

RW SERIES PRINTERS AND ACCESSORIES

RW 220™ and RW 420™ printers

Zebra RW Series mobile printers are ideal for receipts and invoices on the go. The modular design gives users a choice of secure wireless options and card readers. The compact printer also offers convenient vehicle mounting and charging options, as well as user-intuitive interfaces and angled display for easy use.

Additionally, the RW 220 has a high-speed processor and large memory for quick and efficient processing of complex receipts, graphics and fonts using sophisticated wireless options.

As the only mobile printer to have the stringent IP54 dust- and water-resistance rating, the RW 220 and RW 420 printers can withstand the harsh demands of a number of direct-store-delivery, field-service, retail and transportation printing applications.

RW 420 Print Station

The RW 420 Print Station integrates Zebra's core mobile printing technology into a single, compact, lightweight and rugged unit capable of supporting a Motorola® handheld terminal. Designed to increase the productivity and efficiency of mobile workers, the RW 420 Print Station is perfect for direct store delivery, field-service/sales and electronic citation applications.

This price-competitive mobile-workforce tool with built-in, easy-to-use RW 420 mobile printer holds your choice of a Motorola MC55, MC65, MC70 or MC75 removable mobile computer. Mobile workers can easily carry the streamlined RW 420 Print Station via shoulder or hand strap to customer visits – where they can rest the unit on their arm to enter data, conduct transactions via the optional magnetic-stripe card reader, and print receipts and other documents.

In addition, both the printer and mobile computer can charge simultaneously from a single source. Used with one of the charger options featured in this datasheet, the single-source charging feature saves you money, saves space in the vehicle or field-service dispatch centre, and saves users time.

RW 420 Route Palette

Zebra's RW 420 Route Palette provides a single and convenient carrier for Zebra's rugged RW 420 mobile printer and your choice of Motorola's MC70, MC75, MC9090-S ("short"), MC9094, MC9097 or MC9500 handheld computer.

As with the RW Print Station, this integrated solution makes mobile workers' jobs easier and more productive. They can use the Route Palette shoulder strap or carry it by its solid handle to customer visits – then cradle it on their arm like a painter's palette as they enter data and print receipts, invoices or inventory pick tickets.

With optional mounting brackets, the RW Print Station and Route Palette can be conveniently installed in a vehicle.

Four-bay power station for RW 420 Route Palette and Print Station

The RW 420 Route Palette four-bay station houses four RW 420 Print Stations or Route Palettes for easy dock-and-go charging. It can be mounted on the wall and requires just one electrical outlet, so it's perfect for field-service dispatch centres.

RW 420 four-bay power station

The RW 420 four-bay power station charges up to four RW 420 printers via a single power outlet, reducing the number of cables and power-supply requirements in your dispatch room.

Use the power station to simply dock and go. At the end of a shift, field-service personnel can simply slip the printer into a slot to recharge it until next required, then retrieve it before leaving on their next route.

RW series in-vehicle charger options

Using the DC/DC lithium ion vehicle charger, plug your RW series printer into your vehicle's cigarette-lighter adaptor for convenient charging on the go.

Alternatively, the DC/DC lithium ion vehicle charger with crimped terminations enables you to hard-wire your RW series printer into your vehicle's power supply. Three voltage options are available: 12VDC, 9-30VDC and 30-60VDC.

Chargers are available for:

• Printers

• Route Palette and RW Print Station

• Vehicle cradles

RW series USB to RJ-45

The USB port on the RW series mobile printers is used for the setup and maintenance of the printer. For wired communications, Zebra recommends using a serial RJ-45 cable for connection to your RW printer's RS-232C serial port.

RW series soft cases and hand straps

Add additional protection to your RW mobile printers with an environmental soft case.

Shoulder straps and hand straps can be used to enhance the flexibility of use of the RW series printers.

Vehicle cradles

Use the RW 220 or RW 420 vehicle cradles to charge your printing device while on the move.

An intuitive push-button release makes the operation of this cradle simple and efficient, providing convenient storage and integrated charging of the printer while in a vehicle.

Fanfold media can be fed through the base of the cradle to extend the media capacity of the printer, and the cradle can also be mounted to a RAM arm for flexible access and orientation once installed.

RW 420 battery eliminator

If using an RW 420 printer inside a vehicle permanently, use the RW 420 battery eliminator to power the printer directly from the vehicle power source without a battery or the associated charging and replacement requirements.

SPECIFICATIONS AT A GLANCE*
RW SERIES

Standard printer features

- Print method: direct thermal
- Four-button angled LCD
- Serial and USB interfaces
- Advanced 32-bit architecture for high-speed processing
- Smart battery management (monitors battery for longer life and performance)
- Construction: impact-modified polycarbonate, abrasion-resistant rubber overmould
- Drop specification: six-foot multiple drops to concrete
- RS-232 serial interface with cable-locking mechanism
- Fanfold slot for accepting external media (RW 420)
- Self-centring media holders
- Auto-detect firmware load

Programme languages

- Programming language: Native CPCL with ZPL® emulation (standard)

Printer specifications

Maximum print area

- Width: 56mm (2.20") – RW 220
  104mm (4.09") – RW 420
- Length: continuous

Resolution

- 8 dots per mm (203dpi)

Maximum print speed

- 76.2mm (3") per second

Memory

- 8MB flash, 16MB DRAM

Media characteristics

Max. roll size (O.D.)

- 57mm/2.25"

Max. media width

- 25mm/1" to 60mm/2.37" (RW 220)
- 51mm/2" to 105mm/4.12" (RW 420)

I.D. core

- 19mm/0.75" or 34.9mm/1.38"

Thickness

- 0.05mm/0.002" to 0.16mm/0.0063"

Media types

- Direct-thermal tags or receipt paper, synthetic media, UV coated media, limited label support
- Fanfold media support (RW 420)

For optimum print quality and print-engine performance, use genuine Zebra supplies.

Operating characteristics

Environment

- Meets IP54 rating
- Operating temp. -20ºC/-4ºF to 55ºC/131ºF
- Storage/Environ. -30ºC/-22ºF to 65ºC/149ºF
- Operating humidity: 10–90% non-condensing
- Storage humidity: 10–90% non-condensing

Electrical

- Standard 2.0 a.h. 7.4V battery (RW 220)
- Standard 4.0 a.h. 7.4V battery (RW 420)
- External charging options (vehicle and AC)
- Shock-mounted internal components

Communication interface capabilities

- Optional Bluetooth v 2.0 or 802.11b/g
- Standard cable connection: RS-232, RJ-45 10-pin
- Selectable baud rate: 9.6 to 115.2Kbps
- XON/XOFF or hardware flow control (RTS/CTS)
- USB 2.0 full-speed support, 12Mbps

Agency approvals

- FCC Part 15 Class B, VCCI Class B, NOM/NYCE CE compliance (Class B), C-Tick, CSA

Physical characteristics

Base version RW 220:

- Width: 112mm (4.4")
- Depth: 74mm (2.9")
- Height: 173mm (6.8")
- Weight: 658g (1.45lb)

Card-reader version RW 220:

- Width: 112mm (4.4")
- Depth: 81.2mm (3.2")
- Height: 173mm (6.8")
- Weight: 703g (1.55lb)

Base version RW 420:

- Width: 160mm (6.3")
- Depth: 76mm (3.0")
- Height: 175mm (6.9")
- Weight: 907g (2.00lb)

Card-reader version RW 420:

- Width: 160mm (6.3")
- Depth: 79mm (3.1")
- Height: 175mm (6.9")
- Weight: 975g (2.15lb)

RW Print Station:

- Width: 282.4mm (11.12")
- Depth: 71.9mm (2.83")
- Height: 193.5mm (7.62")
- Weight: 1.47kg (3.25lb)

Options and accessories

- Magnetic-stripe reader and EMV-certified smart-card reader
- Lithium-ion fast AC charger
- Lithium-ion quad charger
- Fanfold bin (RW 420)
- Cigarette-lighter charger (for in-vehicle charging)
- Vehicle cradle for docking and charging
- RAM mount kit
- Shoulder strap/hand strap
- Environmental soft case
- Wireless security including VPN, WPA, EAP-TLS, EAP-TTLS, LEAP, PEAP
- ZebraLink™ Solutions: ZebraDesigner™ Pro, ZebraNet™ Bridge Enterprise Zebra Universal Driver
- Label Vista™ software for native CPCL

Fonts and graphics

Fonts and character sets

- Standard fonts: 25 bitmapped, 1 smooth-scalable (CG Triumvirate™ Bold Condensed)**
- Optional fonts: downloadable bitmapped and scalable fonts
- International character sets (optional): Chinese 16x16 (trad), 16x16 (simplified), 24x24 (simplified); Japanese 16x16, 24x24, Hebrew/Arabic

Graphic features

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

Barcode symbologies

- Linear barcodes: Codabar, Code 39, Code 93, Code 128, EAN-8, EAN-13, EAN-14, FIM Postnet, Interleaved 2-of-5, MSI, Plessey, UCC/EAN 128, UPC-A, UPC-E, UPC and EAN 2 or 5 digit extensions
- Two-dimensional: Composite Symbology, Data Matrix, GS1 DataBar (RSS), MaxiCode, PDF417, QR Code

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