Specifications at a Glance*

Print Characteristics
- Print method: Direct thermal
- Resolution: 203 dpi/8 dots per mm
- Maximum print speed: 3"/76.2 mm per second

Memory
8 MB Flash, 16 MB RAM

Physical Characteristics
- Construction: Impact-modified polycarbonate, abrasion-resistant rubber overmold
- Drop specification: 6-foot multiple drops to concrete
- LCD: Ergonomic, angled display for better viewing
- Strain relief RS 232 serial interface
- Fanfold slot for accepting external media (RW 420 only)
- Self-centering media holders
- IP54-certified

Standard Features
- Rugged design
- 4-button angled LCD (standard)
- Standard serial and USB interfaces
- Advanced 32-bit architecture for high-speed processing
- Enhanced battery management

Operating Characteristics
Environment**
- Meets IP54 certification
- Operating Temp. -4° F/-20° C to 131° F/55° C
- Storage/Environ. -22° F/-30° C to 149° F/65° C
- Operating Humidity 10-90% non-condensing
- Storage Humidity 10-90% non-condensing
Electrical
- Standard 4.0 Ah, 7.4V battery (RW 420)
- Standard 2.0 Ah, 7.4V battery (RW 220)
- External charging options (vehicle and AC)
- Shock-mounted internal components
- Selectable baud rate: 9600 to 115.2 Kbps
- Xon/Xoff or hardware flow control (RTS/CTS)
- USB 2.0 full speed support, 12 Mbits/second (for setup and configuration)
- RS-232C serial port (RJ-45 connector) for cabled use
Regulatory
FCC Part 15 Class B, VCCI Class B, NOM/NYCE CE compliance (Class B), C-Tick, CSA

Zebralink™ Solutions
Software
- ZebraDesigner™ Pro
- Zebra Mobile SDK
- ZebraNet™ Bridge Enterprise
- Zebra Universal Driver
- Label Vista
- Auto-detect firmware load
- Battery management (monitors battery for longer life and performance)

Networking and Connectivity
- Bluetooth® v. 2.0
- 802.11b/g Zebra Performance Radio
- Native wireless security support: VPN, WPA/WPA2, WEP, Kerberos, WPA-PSK, EAP-TLS, EAP-TTLS, EAP-FAST, LEAP, PEAP, 802.11i
- RW 420 can be configured with dual radios (Bluetooth and WLAN)
Firmware
- Wavelink Avalanche®
- Motorola® MSP
- Native CPCL with ZPL®, EPL™, and XML support (standard)

Media Characteristics
- Max. Roll Size (O.D.): 2.25"/57 mm
- Max. Media Width (RW 420): 4.12"/105 mm
- Max. Media Width (RW 220): 2.37"/60 mm
- I.D. core: .75"/19 mm or 1.38"/34.9 mm
- Thickness: .002"/.05 mm to .0063"/.16 mm
- Media Types: direct thermal tags or receipt paper, synthetic media, UV coated media, limited label support

For optimum print quality and printer performance, use genuine Zebra™ supplies.

Fonts/Graphics/Symbologies
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 16 x 16 (trad), 16 x 16 (simplified), 24 x 24 (simplified); Japanese 16 x 16, 24 x 24, Hebrew/Arabic
Graphic Features
Supports user-defined fonts and graphics—including custom logos
Bar Code Symbologies
- Linear Bar Codes: Code 39, Code 93, UCC/EAN- 128, EAN-14, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14, UPC and EAN 2-of-5 digital extensions, Plessey, FIM Postnet, Interleaved 2-of-5, MSI, Codabar
- 2-Dimensional: Aztec, Data Matrix, GS1 DataBar™ (RSS) family (12 bar codes), MaxiCode, PDF417, QR Code

*Contains UFST from Monotype Imaging, Inc.

Options and Accessories
- Magnetic stripe reader and EMV-certified smart card reader
- Lithium Ion Fast AC Charger
- Lithium Ion Quad Charger
- Cigarette lighter charger (for in-vehicle charging)
- Vehicle cradle for docking and charging
- RW 420 4-Bay Power Station
- Ram Mount Kit
- Route Palette (RW 420 only)
- Shoulder Strap/Hand Strap
- Environmental Soft Case
- Fanfold media support (RW 420 only)
- Linerless label support (RW 420 only)
- XML Support Applications and Documentation utility CD