

UHF | RAIN - Handheld Reader Zebra - RFD40 SLED

- Integrated UHF RFID (EPC Class 1 Gen2 / ISO/IEC 18000-63)
- Up to 1300+ tags per second
- Integrated professional 1D/2D barcode scanner
- Large 7000 mAh PowerPrecision
- IP54 sealing / 1.5 m drop resistance



UHF | RAIN - Handheld Reader RFID Sled for High-Speed Inventory and Asset Tracking

The RFD40 UHF RFID Standard Sled from Zebra Technologies extends enterprise mobile computers with powerful RAIN RFID capabilities for fast and accurate data capture. Designed for seamless integration with Zebra mobile devices through eConnex™ technology, the sled enables quick attachment and reliable connectivity in demanding operational environments.

Supporting EPC Class 1 Gen2 and Gen2 V2 standards, the RFD40 delivers high-performance RFID reading with speeds of more than 1300 tags per second and read ranges exceeding 6 meters. The integrated item-finder mode simplifies locating specific assets or inventory items, improving operational efficiency in retail, logistics and healthcare environments.

With its durable design, large removable battery and flexible charging solutions, the RFD40 provides reliable all-day performance while supporting future upgrades to new Zebra mobile computing platforms.

Common Applications

- Retail inventory counting and item locating
- Warehouse and logistics operations
- Asset tracking and equipment management
- Healthcare patient and asset identification
- Field service and route operations



TECHNICAL SPECIFICATIONS

Physical Characteristics

Dimensions	15,1 x 8,4 x 16,65 cm
Weight	541 grams (sled with battery)
Power	Quick-Release, PowerPrecision+ Li-Ion 7000 mAh battery
Notification	Decode LEDs Battery Status LED Beeper
User Input	Tri-Function User Programmable Trigger

RFID Performance

Standards Supported	EPC Class 1 Gen 2; EPC Gen2 V2
RFID Engine	Zebra Proprietary Radio Technology
Fastest Read Rate	1300+ tags/sec
Nominal Read Range	~6+m
Frequency Range / RF System Output	US: 902-928MHz; 0-30 dBm (EIRP) EU: 865-868MHz; 0-30 dBm (EIRP) 916.3, 917.5, and 918.7 MHz; 0 30 dBm (EIRP) Japan: 916-921MHz (w LBT). 0-30 dBm (EIRP)

User Environment

Drop Specification	EPC Class 1 Gen 2; EPC Gen2 V2
Tumble Specification	Zebra Proprietary Radio Technology
Operating Temp.	1300+ tags/sec
Storage Temp.	~6+m
Humidity	5-85% non-condensing
Electrostatic Discharge	+/-15kV air discharge +/-8kV direct discharge +/-8kVdc indirect discharge
Sealing	IP54

Accessories

Cradles and Charging	Cable Cup USB-C Cable USB Wall Brick for USB-C Cable and Cable Cup 1-Slot Charging Cradle 1-Slot Charging and USB Cradle Multi-Slot Charging Cradle Multi-Slot Charging and Ethernet Cradle 4-Slot Battery Toaster
Other Accessories	eConnex™ Adaptors for Supported Zebra Mobile Computers Battery Locking Foot Belt Holster

Communication

Host Connection	eConnex™ (Electronic 8-pin Connection) USB-C Cable USB Cable Cup
Host Computer	Zebra mobile computers and tablets Windows-based PCs
Mobile Computer Adaptors	eConnex™

Regulatory

EMI/EMC	FCC Part 15 Subpart B Class B; ICES 003 Class B; EN 301 489-1; EN 301 489-3; EN55035; EN 55032 Class B; EN 60601-1-2
Electrical Safety	IEC 62368-1 (ed.2) UL 62368-1, second edition, CAN/CSA-C22.2 No. 62368-1-14
RF Exposure	EU: EN 50364, EN 62369-1, EN 50566, EN 62311; USA: FCC Part 2, 1093 OET Bulletin 65 Supplement 'C'; Canada: RSS-102
RFID	EU EN 302 208, FCC Part 15 Subpart C; Canada: RSS-247