

UHF | RAIN - Handheld Reader TSC - Bluebird RFR900

- RFID GEN2 V2 with 900+ tags/sec
- Qualcomm Octa-Core Up to 2.8GHz.
- Stores 40,000+ tags in batch mode
- Up to 6 m UHF reading range
- IP42 sealing & 1.2 m drop spec



UHF | RAIN - Handheld Reader Ultimate Enterprise Kiosk Tablet

Discover exceptional RFID performance with the RFR900 Handheld RFID Reader, engineered to deliver outstanding visibility, accuracy, and speed. With the capability to capture more than 900 tags per second and reach reading distances of over 6 meters, the RFR900 sets new standards for efficiency in high-volume environments. Its ability to store more than 40,000 tags in batch mode ensures uninterrupted data collection - even without a live connection - making it the optimal choice for inventory, asset tracking, and demanding field applications.

Designed with an ergonomic pistol grip and seamless integration with Bluebird mobile computers, the RFR900 enhances productivity while remaining comfortable during long shifts. Users can effortlessly switch between UHF RFID and 1D/2D barcode scanning, ensuring maximum flexibility across workflows. Built with Bluebird's rugged TankSmith™ technology, the device withstands industrial challenges with a 1.2 m drop spec, IP42 sealing, and robust performance from -20°C to 60°C, guaranteeing reliability in tough environments.

With support for global UHF frequency bands, Bluetooth connectivity for diverse devices, and a comprehensive SDK for easy integration, the RFR900 empowers organizations to deploy powerful RFID capabilities quickly and cost-effectively. It is the ideal solution for businesses seeking long-range performance, durability, and seamless workflow integration in one compact, high-performance tool.

Common Applications

- Retail
- Warehouse Management
- Healthcare
- Asset and tool tracking
- Transportation & Logistics



TECHNICAL SPECIFICATIONS

Performance Characteristics

Standards Supported	GEN2 V2
Fastest Read Rate	900+ Tags/sec
Nominal Read Range	20+ ft./ 6+ m
Frequency Range / RF Output	US: 902-928 MHz EU: 865-868 MHz JP1: 916-921 MHz, JP2: 916~923 MHz CN: 920.5-924.5 MHz
Batch Mode Memory	Store 40,000+ RFID Tags

Physical Characteristics

Dimensions (L x W x D)	146.2 x 70 x 148.7 mm
Weight	333 g
Power	User replaceable Battery Standard: 3.64V, 3,400 mAh Extended: 3.64V, 4,000 mAh
Notification	5 LED and audible tone
Configurations	RFID only or RFID with 1D/2D Imager
User Input	Trigger, 2 push button switch (Mode Change, Power)

Communication

Interface	UART / USB
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Wireless PAN

Bluetooth	Bluetooth V2.1+EDR, Class 2
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User Environment

Operating Temp	-20°C to 60°C / -4°F to 140°F
Storage Temp	-30°C to 70°C / -22°F to 158°F
Charging Temp.	0°C to 45°C / 14°F to 113°F
Humidity	95% non-condensing
Drop Spec.	1.2m / 4ft drop per MIL-STD 810G
Tumble Spec.	1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature
Sealing	IP42
Electrostatic Discharge (ESD)	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge