

S10 RFID

Hand Held Managed RFID Computer

All-in-One UHF RFID Reader

The S10 RFID is a globally proven, all-in-one UHF RFID handheld reader engineered to deliver maximum operational efficiency with minimal upfront investment. It is a powerful tool for industries that require real-time visibility in logistics, inventory control, and asset management, and it provides a fast return on investment (ROI).

Key Features

Ultimate RF Stability

By delivering transmit power of up to 30 dBm, the S10 RFID ensures stable RFID performance even in demanding wireless environments.

Perfect Harmony of Global Compliance and Performance

The device meets global regulations while delivering best-in-class tag recognition performance for reliable compliance and strong operational results.

Blazing-Fast Tag Reading Capability

The S10 RFID can recognize more than 1,300 tags per second. This significantly reduces inventory time, supports accurate real-time tracking of large-scale assets, and helps minimize delays.

Advanced Battery Technology

BOS™ Power Manager, with standard 4000 mAh and extended 6000 mAh batteries, delivers reliable power and long operating hours.

Lower TCO

The S10 RFID integrates essential functionality into a single device, helping reduce maintenance and accessory costs associated with separate hardware and lower total cost of ownership (TCO).



Applications

Warehouse & Logistics

- Inventory Management
- Real-Time Inventory Synchronization
- Automated Data Capture
- Process Optimization

Retail

- Inventory Management
- Returns Management
- Item Location Tracking
- Stock Accuracy
- In-Store Operations Support
- Customer Service Enhancement

Construction & Heavy Equipment

- Asset Tracking
- Material Tracking
- Site Audits
- Compliance Management

Healthcare & Public Institutions

- Patient Verification
- Asset Tracking
- Contactless Audits
- Safety Management
- Operational Efficiency

Manufacturing

- Work-in-Progress (WIP) Tracking
- Inventory Management
- Production Line Optimization
- Tool Tracking

Field Service / Maintenance

- Equipment Identification
- Maintenance History Tracking
- Service Documentation
- Compliance Management
- Field Operations Support

Key Features

Extended Reading Range

Capture tags quickly and accurately from distances of up to 13+ meters (42.65+ feet) or more, maximizing efficiency in large warehouses and outdoor environments.

Feather-light Portability

Its ultra-lightweight design, at 613.8 g, reduces strain for workers throughout the day.

Optimized Grip and Balance

The ergonomically designed long, flexible grip provides comfort during extended use, while the optimized center of gravity helps reduce hand strain and device wobble.

Anti-Slip Engineering

A specially designed trigger housing and handle base help prevent slippage, supporting both job safety and data security.

Next-Generation RFID Chip

Equipped with the E710 RFID Impinj chip, the S10 RFID supports EPC Class 1 Gen 2 and ISO 18000-63 protocols, enabling rapid and precise tag recognition.

Enhanced Android Operating System

The S10 RFID runs on the latest Android version, delivering faster performance, improved security, and a seamless experience across enterprise applications.

BOS™ Solutions & Software

- BOS™ NEST
- BOS™ Provisioning; Staging; Kiosk; Virtual Key
- BOS™ VoIP, PTT, PTT Essential
- BOS™ Wi-Fine™ (Wi-Fi analyze application)
- BOS™ Keyboard
- BOS™ Secure ID (Security management solution)

Third Party Solutions Integration

- EMM: Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile, Soti
- PTT: ESChat, Zello, IMPTT, EveryTalk, AirPTT

S10 RFID Specifications

Physical Characteristics

Dimensions (L x W x D)	172.45 x 85.4 x 160.5mm
Weight	613.8g
CPU	QCM SM6225 OctaCore up to 2.4GHz
Display	5.5" HD=(1440 x 720)
Memory	6GB RAM / 64GB UFS Flash 8GB RAM / 128GB UFS Flash (Optional)
Power	Standard : 7,000mAh (Default)
Hot swap	Support
Quick Charging	Support
SIM / SAM	eSIM (Optional)
Notification	Audible tone Vibration Scan LED Charging LED (multi-color LEDs)
Configuration	RFID only Barcode on EMC
Interface	Bottom : USB Type-C Connector / 2-pin Charging Connector
User Input	On-screen keypad Power Button Volume Up/Down Button Programmable Button Dual-action side scan buttons
Voice and Audio	Dual noise-cancelling microphones Vibrate alert High-quality Single speaker phone Bluetooth wireless headset support
PTT Hot Key	Supported Available dual-action side scan triggers



RFID Performance

Standards Supported	EPC Class 1 Gen 2, EPC GEN2 V2, Gen2X
Fastest Read Rate	1,300+ Tags/sec
Nominal Read Range	13+m / 42.65+ft.
Power Output 1W = 30dBm 2W = 33dBm	US : 5-35dBm (EIRP) EU : 5-33dBm (ERP) EU Upper : 5-33dBm (ERP) JP : 5-33dBm (EIRP)
Frequency Range / RF Output	US : 902-928 MHz EU : 865-868 MHz; 916.3, 917.5, and 918.7MHz JP : 916-921 MHz (w LBT)
Batch Mode Memory	N/A

WWAN

Radio Frequency Band	(esim Only) Worldwide 4G : (LTE-FDD : B1/B2/B3/B4/B5/B7/B8/B19/B20/B28), (LTE-TDD : B38/B40/B41) 3G : UMTS : B1/B2/B3/B4/B5/B8/B9/B19 2G : GSM : 850/900/1800/1900
GPS	(esim Only) GPS/Glonass/BeiDou/Galileo/SBAS

WLAN

Radio	WLAN 1 x 1 IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v1/w/ax (ready) WIFI 6 Ready
Data Rates	2.4 GHz: 802.11b/g/n 20 MHz, 40 MHz – up to 150 Mbps 5 GHz: 802.11a/g/n/ac 20 MHz, 40 MHz, 80 MHz – up to 433 Mbps
Security and Encryption	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES) EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP and EAP-PWD; WPA3 Enterprise 192-bit Mode (GCMP-256) EAP-TLS; Enhanced Open (OWE)

Notes: The Android version is subject to change depending on Qualcomm's roadmap. The Bluebird warranty program must be purchased to receive Android upgrade services. Specifications are subject to change without notice, and some features may vary by region.

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Communication

Physical Interface	USB C (USB 3.0) OTG
WIRELESS PAN	BT 5.1, BLE, Class 2
Compatible Host Devices	N/A

Data Capture

Scanning	1D/2D Imager
Camera	Front Camera : 5MP

User Environment

Operating Temp	-20°C to 50°C / -4°F to 122°F
Storage Temp	-40°C to 70°C / -40°F to 158°F
Charging Temp	0°C to 45°C / 32°F to 113°F
Humidity	5% to 95% non condensing
Drop Spec	Multiple 1.5m / 5ft drops to tile over concrete at room temperature
Tumble Spec	600 tumbles, 1.6 ft./0.5 m
Sealing	IP54
Electrostatic Discharge (ESD)	+/-15kv air discharge +/-8kc direct discharge +/-8kv indirect discharge

Accessory

In-box	Battery, Wrist Strap
Additional	5V/3A Direct Charging Power adapter USB C to A data cable 1 Slot Charging Cradle Handstrap

Software Solutions

BOS™ Solutions & Software	BOS™ <ul style="list-style-type: none"> • Nest • Provisioning; Staging; Kiosk; Virtual Key • VoIP, PPT, PTT Essential • Wi-Fine™ (Wi-Fi analyze application) • Keyboard • Secure ID (Security management solution)
Third Party Solutions Integration	EMM: Airwatch, MobileIron, Mobicontrol, Mass360, XenMobile, Soti PTT: ESChat, Zello, IMPTT, EveryTalk, AirPTT

Note: Device is subject to the terms of Bluebird's hardware warranty statement.



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