

All-in-One  
 UHF RFID HH Reader

# S10 RFID

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



Designed to overcome common business challenges, the S10 RFID provides an efficient Total Cost of Ownership (TCO) by simplifying device management and minimizing integration complexity. This lowers adoption barriers and enhances productivity, reliability, and customer satisfaction—ultimately supporting business growth.



## Use case — Warehouse & Logistics

The S10 RFID streamlines warehouse operations by replacing manual processes with a single-scan solution, ensuring real-time inventory synchronization.

## Use case — Retail

The S10 RFID empowers retail employees with real-time inventory checks and product location tracking directly from the sales floor, boosting stock accuracy and customer service.

## Use case — Construction & Heavy Equipment

On-site, the S10 RFID provides managers with precise asset and material tracking, allowing for instant audits and improved compliance.

## Use case — Healthcare & Public Institutions

The S10 RFID enhances safety and efficiency by enabling quick patient prescription verification and contactless IT asset audits.

## Use case — Manufacturing

S10 RFID facilitates real-time work-in-progress (WIP) tracking and automated inventory counts, optimizing assembly line flow and minimizing loss through precise tool location.

## Use case — Field Service / Maintenance

Technicians can achieve accurate equipment identification for rapid service, instantly retrieving maintenance history and documentation for guaranteed compliance.

# Key Features

## BEST-IN-CLASS FEATURES AND POWERFUL PERFORMANCE

### Ultimate RF Stability

By maintaining an Extreme Transmit Power of up to 30dBm, the S10 RFID guarantees unwavering, stable RFID performance even in the most demanding wireless frequency conditions.

### Blazing-Fast Tag Reading Capability

The S10 RFID boasts an incredible processing speed, recognizing over 1,300 Tags per second. This drastically cuts down inventory time, accurately tracks large-scale assets in real-time, and ensures your business experiences zero delay.

### Perfect Harmony of Global Compliance and Performance

The device not only adheres strictly to Global Regulations but also delivers best-in-class tag recognition performance, providing reliable compliance you can trust.

### Lower TCO

The S10 RFID integrates essential functionalities into one small device, directly tackling the burden of increased maintenance and accessory costs associated with separate hardware, leading to a significantly Lower Total Cost of Ownership (TCO).

### Extended Reading Range

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

## ERGONOMIC DESIGN FOR ALL-DAY FIELD COMFORT

### Feather-light Portability

Its ultra-lightweight design, weighing in at a remarkably light 613.8g, is significantly lighter than competitive products, reducing the burden on workers throughout the day.

### Optimized Grip and Balance

The ergonomically designed long, flexible grip offers superior comfort when gripping for extended periods, while the optimized center of gravity minimizes hand strain and device wobble during use.

### Anti-Slippage Engineering

Special design applied to the trigger housing and handle base prevents slippage, simultaneously ensuring job safety and data security.

## FUTURE-PROOF CORE TECHNOLOGY

### Next-Generation RFID Chip

Equipped with the powerful E710 RFID chip, the S10 RFID fully supports EPC Class1 Gen 2 / ISO 18000-63 protocols, enabling rapid and precise tag recognition capabilities.

### Enhanced Android Operating System

S10 RFID runs on the latest Android version, delivering faster performance, enhanced security features, and a seamless user experience across all enterprise applications.

# Specifications

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

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

WWAN	
<b>Radio Frequency Band</b>	(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
<b>GPS</b>	(esim Only) GPS/Glonass/BeiDou/Galileo/SBAS

# Specifications

WLAN	
<b>Radio</b>	WLAN 1 × 1 IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v1/w/ax(ready) WIFI 6 Ready
<b>Data Rates</b>	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 Mbp
<b>Security and Encryption</b>	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)
<p>* Android version is subject to change depending upon Qualcomm's roadmap.            * Please be informed that Bluebird warranty program should be purchased to get Android upgrade service.            * Specifications are subject to change without notice and some features may vary by region.</p>	

User Environment	
<b>Operating Temp.</b>	-20°C to 50°C / -4°F to 140°F
<b>Storage Temp.</b>	-40°C to 70°C/-40°F to 158°F
<b>Charging Temp.</b>	0°C to 45°C / 14°F to 113°F
<b>Humidity</b>	5% to 95% non condensing
<b>Drop Spec.</b>	1.5m / 5ft. drop to tile over concrete per MIL-STD 810G across operating temperature
<b>Tumble Spec.</b>	600 tumbles, 1.6 ft./0.5 m
<b>Sealing</b>	IP54
<b>Electrostatic Discharge (ESD)</b>	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge

Communication	
<b>Physical Interface</b>	USB C (USB 3.0) OTG
<b>WIRELESS PAN</b>	BT5.1, BLE, Class 2
<b>Compatible Host Devices</b>	N/A

ACCESSORIES	
<b>Accessories</b>	In-box - Battery, Wrist Strap  Additional - 5V/3A Direct Charging Power adapter - USB C to A data cable - 1 Slot Charging Cradle - Hand Strap
<p>* Specifications are subject to change without notice and some features may vary by</p>	

Data Capture	
<b>Scanning</b>	1D/2D Imager
<b>Camera</b>	Front Camera : 5MP