

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	
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 inches 1440 x 720, HD
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) Japan : 5-33dBm (EIRP)
Frequency Range / RF Output	US : 902-928 MHz EU : 865-868 MHz; 916.3, 917.5, and 918.7MHz Japan : 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

Specifications

WLAN	
Radio	WLAN 1 × 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 Mbp
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)
<p>* Android version is subject to change depending upon Qualcomm's roadmap.</p> <p>* Please be informed that Bluebird warranty program should be purchased to get Android upgrade service.</p> <p>* Specifications are subject to change without notice and some features may vary by region.</p>	

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

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

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