

# S10 RFID

## Handheld Managed RFID Computer

### All-in-One UHF RFID Reader

Our 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).

## Key Features

### Ultimate RF Stability

By maintaining an Extreme Transmit Power of up to 34dBm, the S10 RFID guarantees unwavering, stable RFID performance even in the most demanding wireless frequency conditions.

### 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.

### 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.

### 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.



## 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

## 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.

## Next-Generation RFID Chip

Equipped with the powerful E710 RFID chip, the S10 RFID fully supports EPC Class1 Gen 2 / EPC GEN2 V2, Gen2X / 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.

# 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                                                                                            |
| Operating System       | Android 14 (support for android 16, 18 versions)                                                                            |
| Display                | 5.5" HD=(1440 x 720)                                                                                                        |
| Memory                 | 6GB RAM / 64GB UFS Flash<br>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<br>Scan LED<br>Charging LED (multi-color LEDs)                                                      |
| Configurations         | RFID only Barcode on EMC                                                                                                    |
| Interface              | Bottom : USB Type-C Connector, 2-pin Charging Connector                                                                     |
| User Input             | On-screen keypad<br>Power Button<br>Volume Up/Down Button<br>Programmable Button<br>Dual-action side scan buttons           |
| Voice and Audio        | Dual noise-cancelling microphones ; Vibrate alert;<br>High-quality Single speaker phone; Bluetooth wireless headset support |
| PTT Hot Key            | Supported<br>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                       | 42.65+ft / 13+m                                                                                                                       |
| Power Output<br>1W = 30dBm<br>2W = 33dBm | US: 902~928MHz, 9.79~34.79dBm (EIRP)<br>EU: 865~868MHz, 7.29~32.29dBm (ERP)<br>EU Upper: 916.3, 917.5, 918.7MHz, 9.44~34.44dBm (EIRP) |
| Frequency Range / RF Output              | US : 902-928 MHz;<br>EU : 865-868 MHz;<br>EU Upper : 916.3, 917.5, and 918.7MHz;                                                      |
| Batch Mode Memory                        | N/A                                                                                                                                   |
| Antenna Polarization                     | Linear                                                                                                                                |

## Wireless Wan

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

## Wireless Lan

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

\* 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.

Communication

|                         |                              |
|-------------------------|------------------------------|
| Physical Interface      | USB C (USB 3.0) OTG          |
| WIRELESS PAN            | Bluetooth V5.1, 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<br>+/-8kc direct discharge<br>+/-8kv indirect discharge |

Accessories

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

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