Intelligent UHF 4-Port Reader

SBR-U25-OS

The SBR-U25-OS is a high-performance 4-port fixed RFID reader with TNC antenna interfaces, designed for fast and reliable tag reading. It features a built-in RK3568 embedded control board that supports both Linux and Android systems, and allows for custom app development—making it highly adaptable to diverse industrial applications. With rapid polling, efficient signal processing, and stable multi-antenna performance, it delivers high-speed, accurate reads even in dense environments. Commonly used in file tracking, asset management, access control, customs, electronic ticketing, and warehouse operations, the SBR-U25-OS offers robust functionality and strong communication capabilities—making it an ideal choice for RFID integration projects under Soochak Bharat.

Features and Benefits:

- Flexible label data filtering for accurate tag identification
- Built-in RK3568 control board for industrial-grade processing
- Flexible label data filtering for accurate tag identification
- Dense tag reading with anti-interference optimization
- Fast multi-tag reading with anti-collision algorithm
- RSSI support for signal strength monitoring
- Rich communication interfaces: HDMI, Type-C USB, RJ-45, RS232, RS485, Wi-Fi, Bluetooth, 4G
- Supports PoE (Power over Ethernet) input
- Connects up to 4 external antennas via TNC ports
- 4 opto-isolated inputs and 4 relay outputs for I/O integration
- Includes demo software for secondary development

Applications:

- File and Document Management
- Asset and Inventory Tracking
- Access Control Systems
- Warehouse & Logistics
- Library and Archive Management

SOOCHAK BHARAT TECHNOLOGIES PRIVATE LIMITED

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SPECIFICATIONS	
Physical Parameter	
Dimensions (in mm)	213mm X 125mm X 37.5mm
Colour	White
Weight	1.3 Kg approx.
Packaging Material	Aluminium
UHF Technical Parameters	
Protocol	EPC Class 1 Gen2 (ISO 18000-6C)
Features	Supports dense reading and writing, multi-tag recognition, label data filtering, RSSI support, and signal strength detection.
CPU	**Processor:** RK3568, quad-core 64-bit Cortex-A55 **Speed:** 2.0 GHz
Memory	**Memory:** 2GB RAM **Storage:** 16GB eMMC (embedded flash storage)
Operating Frequency	**China (GB Standard):** ● 920–925 MHz (Primary) ● 840–845 MHz (Optional) **Europe (ETSI Standard):** ● 865–868 MHz (Optional) **India (TEC-Compliant Frequency Band):** ● 865–867 MHz **North America (FCC Standard):** ● 902–928 MHz (Optional)
Power Supply	9 to 30 V DC
Transmitting Power	33dBm±1dB Software adjustable
Operating mode	Supports Broadcasting FM (FHSS) or fixed frequency, configurable via software settings.
Output power adjustment	1 dB step walking
Modulation	DSB-ASK
Read Range	Up to 10 m
Antenna	4 TNC antenna interface
Continuous Tag Writing Distance (EPC Code)	≥5 m (dependent on tag chip performance); writing power exceeds 90% in a non-interference environment.
Communication Interfaces	Supports multiple user interfaces, including **TCP/IP**, **RS232**, **RS485**, and optional **Wiegand 26/34** interface.
IO	2 opto-isolated inputs and 2 opto-isolated outputs (GPIO)
Pilot Lamp	1-channel power supply status light 1 system operation status indicator 1-channel communication activity light 4-port UHF antenna interface status LEDs
Relay	4 relays
Operating System	Android, Linux
Display Interface	HDMI Joggle
Environmental parameters	
Operating Temperature	-20°C to +70°C
Operating Voltage	DC, 9-30 V

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Storage Temperature	-40℃ to +85℃
Working Humidity	10% to 95%RH No condensation

Soochak Bharat, with its technical expertise in RFID technology, focuses on designing, developing, innovating, and deploying RFID hardware solutions.

*Read range is dependent on tag size and design.

*Soochak Bharat reserves the right to make changes in the above specifications without notice.

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