**RFO-SPM3308
High performance
Android
UHF RFID-Reader**

DATA SHEET

Product Description

Main Features

The RFO-SPM3308 is a very powerfull Android RFID-Reader with 2000mW (33db) for long-range and reliable tag detection. This Reader is equipped with 8 antenna ports to enhance reading efficiency and flexibility.

Key Features

> Operating System: Android OS for intuitive operation and easy application integration.

> Display Connectivity: HDMI output for seamless connection to monitors.

> Compact Design: Ultra-small and flat form factor for easy installation and space-saving.

> Premium Build: All-aluminum body with a modern, concise, and elegant design—perfectly balancing industrial robustness and aesthetic appeal.

> High-Performance Computing: Advanced computing platform enables smooth processing of large data volumes and simplifies application deployment.

> Connectivity Options: Integrated Wi-Fi, 4G, and Bluetooth support.

Product dimensions

Article no:	RFO-SPM3308

Typical Applications

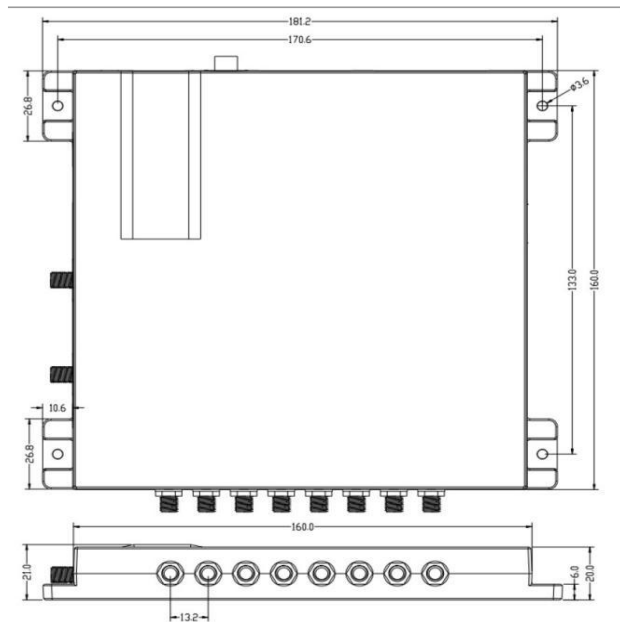|	
•Manufacturing	•Health Care
•Security	•Asset management
•Waste management	•Food
•Logistics	•Transportation

RADIOFORCE

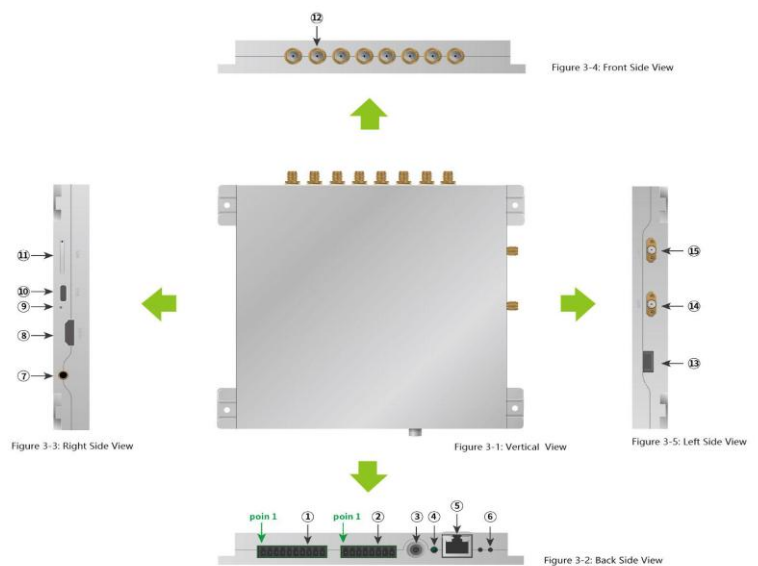| Functional Specifications:	RFO-SPM3308
Operating System	Android 14.0
CPU	Octa-core 64-bit Cortex-A55/up to 2.0GHz + a 200M RISC-V Co-processor
RAM+ROM	4G+64G
Input Voltage	DC 9V ~ 24V
Speaker Size	12 x 9.5mm / 2300 ± 300 Hz
POE Power	25W maximum, Support IEEE802.3 af/at, Support POE Classification 0 to 5
GPIO	4 inputs and 4 outputs
HDMI / Online Upgrade / Ambient Temp Monitor	Support
WIFI	SMA interface, support 2.4G/5G WIFI
Bluetooth	Bluetooth 5.0
4G	Support
USB Interface	USB 3.0 OTG（Type C）interface / USB 2.0 Host（Type A）interface
Serial Interface	RS-232
Ethernet	1000M/100M/10M adaptive Netcard
Operating Temp	-20℃~+60℃
Storage Temp	-30℃~+70℃
Humidity	5%RH - 95%RH（non-condensing）
Protection Grade	IP53
Heat Dissipation	Air cooling
RFID-Reader	
Protocol	EPC Global UHF Class 1 Gen 2/ISO 18000-6C / GB/T 29768-2013
Frequency	902~928MHz, 865~868MHz
RF Output Power	0 ~ 33 dBm (0 - 2000 mW)
Peak Inventory Speed	>500tags/sec
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB
Tag RSSI	Support
Supported Regions	US, Canada and other regions following / U.S. FCC / Europe and other regions following ETSI EN 302 208 / China / Korea / Malaysia
Sensitivity	-85dBm
Material	Cast Aluminum
Dimensions	181.2 x 160 x 21 mm
Weight	772g

Dimensions drawing	
Pin Assignments and Interfaces	

Interfaces Definition

Interfaces Definition		
PIN ID	**Function**	**Description**
①	GPIO	PIN 1. GND | PIN 6. GPIO Out 4 PIN 2. GND | PIN 7. GPIO In 1 PIN 3. GPIO Out 1 | PIN 8. GPIO In 2 PIN 4. GPIO Out 2 | PIN 9. GPIO In 3 PIN 5. GPIO Out 3 | PIN 10. GPIO In 4
②	Serial Port Communication Pin	1. RTS | 5. GND 2. TX | 6. Blank 3. CTS | 7. Blank 4. RX | 8. Blank
③	Power	DC 9V ~ 24V
④	Power Light	Power Indicator
⑤	Ethernet	1000M/ 100M/ 10M Adaptive Netcard
⑥	Indicator Light	User-defined Indicator
⑦	Audio Interface	Support Audio Interface
⑧	HDMI	Support
⑨	Reset	Reset
⑩	USB Interface	USB 3.0 OTG(Type C) Interface
⑪	SIM Card Slot	Micro SIM Card Slot
⑫	RF Connector	SMA Antenna Interface
⑬	USB Interface	USB 2.0 Host (Type A) Interface
⑭	WIFI	SMA Interface
⑮	4G	SMA Interface