

Key Features

- Inbuilt 9dBi Circular Polarized
 Antenna
- High RF sensitivity for longer read-write ranges
- Multiple communication interfaces
- Supports reading-writing of tags
- High tag read rate
- Supports auto-pilot mode
- Multi-regional support
- Compact package
- IP65 rating
- Dual antenna



Product Datasheet

Two Port Integrated Reader

Model No.: SN-IR 201

Scratch nest

ScratchNest SN-IR 201 is a compact and fully integrated two port Long Range RAIN RFID Reader which works in the ultra-high It boasts various frequency range. features including a built-in 9 dBi circular polarized antenna, an external antenna port of 50 Ohm and USB, RS-232, RS-485, and LAN interfaces that make it easy to install and use. Additionally, the range of RF power is 0 to 31.5 dBm which is adjustable via software. This reader is completely water resistant and specially designed to bear all weather conditions.





Physical Characteristics

• **Dimensions** 300 x 300 x 50 mm

Material Polycarbonate and aluminium alloy
 Communication USB, RS-232, RS-485, and LAN

Interfaces

• **Input Voltage** 9-24 V DC supply

Current Rating2 A

Cooling Mode Air cooling

• Ethernet Interface 10/100 base T-Ethernet (RJ45)

GPIO
 4 output and 4 input, optically isolated

UHF RFID Features

• **Frequency** 865-868 MHz and 902-928 MHz

Protocol
 EPC Class1 Gen2 (ISO 18000-6C), ISO 18000-6A/B

Antenna Dual, one inbuilt antenna & one 50 Ohm TNC connector for external antenna

Internal Antenna 9 dBi

Gain

Internal Antenna Circular polarization

Polarization

MCU Arm Cortex-M4
RF Power 0 - 31.5 dBm

• RF Power Control Command-adjustable with separate read and write levels

• **Default RF Power** 31.5 dBm

Read range >10 m, with suitable antennas

RF SensitivityRSSISupported

Maximum Tag
 700 tags/s (with 16-bit tag EPC length)

Read Rate

Tag Read Indication LED and buzzer

• Carrier Cancellation Enabling pre- and re-tuning

Circuitry

Dense Reader Mode SupportedAuto Pilot Mode Supported

User Environment

Environmental IP65 rating

Sealing

• Operating -25 to 65 °C

Temperature

• Storage -45 to 90 °C

Temperature

• **Relative** 10 % to 90 %

Humidity





Visual and Sound Indicators

Power
 Inbuilt Antenna
 External Antenna
 Yellow LED
 Yellow LED

Tag
 Green LED and buzzer

Accessories Included

- Reader
- Power adapter
- Mounting brackets
- USB cable
- User manual
- Free demo software

Applications

- Toll Collection Management
- Automatic Boom Barrier
- Access Control
- Jewelry Management
- Smart Attendance Systems
- Smart Parking Areas
- Warehouse Management

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Note - All the mentioned specifications are subject to changes without notice.