

Key Features

- Four antenna ports
- High RF sensitivity for longer readwrite ranges
- Multiple communication interfaces
- Supports reading-writing of tags
- High tag read rate
- Supports auto-pilot mode
- Multi-regional support
- Compact package
- Best suited for industrial applications



Four Port Fixed Reader

Model No.: SN-FR 401

Scratch nest



ScratchNest SN-FR 401 is a fixed four port RAIN RFID Reader which works in the ultra-high frequency range. It boasts various features including two antenna ports 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.





Physical Characteristics

Dimensions
 Material
 Muminium 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

• Air Interface EPC Class1 Gen2 (ISO 18000-6C), ISO 18000-6A/B

Protocol

Antenna
 Four, four 50 Ohm TNC connector

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

• Operating -25 to 65 °C

Temperature

• Storage -45 to 90 °C

Temperature

• **Relative** 10 % to 90 %

Humidity





Visual and Sound Indicators

Power
Antenna 1
Antenna 2
Antenna 3
Yellow LED
Yellow LED
Yellow LED
Yellow LED

Tag
 Green LED and buzzer

Connectors Type

USB type BLANRJ45

RS232
 RS485
 GPIO
 Antenna
 DB9 connector
 Phoenix connector
 TNC connector

Accessories Included

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

Applications

- Warehouse Management
- Assets and Inventory Management
- Smart Attendance Systems
- Railways
- Logistics
- Anti-counterfeiting
- Jewelry Management

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