

# RTDI-5100

## 5G/4G INDUSTRIAL ROUTER



### Introduction

It is a wireless communication router for the Internet of Things (IoT), it uses a high-performance industrial level 32-bit communication processor and wireless module, embedded with the real-time operating system as the software platform, and using 3G/4G/5G cellular network to provide users with wireless long-distance large data transmission function.

#### Industrial-grade Design

- High-performance industrial-grade wireless module
- High-performance industrial-grade 32-bit communication processor
- Metal shell, protection grade IP30. Metal housing and system safety isolation
- Wide power input range 9~36V

#### Stability & Reliability

- WDT Watchdog design to ensure system stability
- Adopt a complete anti-drop mechanism to ensure that the data terminal is always online
- Built-in 1.5KV electromagnetic isolation protection for Ethernet interface
- SIM/UIM card interface built-in 15KV ESD protection
- Built-in reverse phase protection and over voltage protection for power interface

## Standard & Convenience

- Standard Ethernet and WIFI Interface
- Standard WAN port (support standard PPPOE protocol) which can be directly connected to ADSL equipment
- Intelligent data terminal, can enter data transmission state after power on
- Easy to use, flexible, multiple working mode options
- Convenient system configuration and maintenance interface (WEB/CLI)
- Support wall-mounted installation

## High Performance

- Support 3G/4G/5G and wired WAN dual link backup (optional), Auto-switching SIMs
- VPN TuClient/Server: PPTP/L2TP/IPSEC (Only available in VPN version)
- Remote management SYSLOG/SNMP/TELNET/SSH/HTTPS
- WIFI support WEP/WPA/WPA2 encryption
- Support multiple online and offline trigger modes
- Support APN/VPN
- Support SNMP, I2TP, GRE, SSL/IKE, OSPFv2, RIPv2, BGP
- Support DHCP server/DHCP client/DHCP binding MAC/DDNS/NAT/Port Forwarding/DMZ/QOS
- Support SPI firewall
- Support URL filter
- Support IPV6/IPV4, 5G LAN
- Support lock frequency, lock resident
- Support EOIP, bridge mode, VxLAN, virtual IP, GRE/TAP, etc.
- Support traffic statistics, VLAN management, and VLAN division

# Specifications

## Cellular Specification

- Module
  - 5G NR NSA:  
n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48\*/n66/n71/n77/n78/n79
  - 5G NR SA:  
n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48\*/n66/n71/n77/n78/n79
- Frequency
  - LTE-FDD:  
B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
  - LTE-TDD:  
B34/B38/39/B40/B41/B42/B43/B48
  - WCDMA:  
B1/B2/B3/B4/B5/B6/B8/B19

*Note: B32/B46 supports receiving only. The supported frequency band varies according to the version of the selected region*
- Theoretical Bandwidth
 

380 Mbps		
LTE:	DL:487Mbps	UL:150Mbps
WCDMA	DL:42Mbps	UL:11Mbps

## WIFI Specification

- WIFI Protocol IEEE802.11 a/b/g/n/ac/ax
- Frequency 2.4GHz + 5GHz
- Theoretical Bandwidth
  - 2.4GHz 2x2MIMO 11ax, 0.573Gbps
  - 5GHz 2x2MIMO 11ax, 1.2Gbps
- WIFI Bandwidth 20MHz, 40MHz, 80MHz
- MESH Network Support CXR router and CPE to build the MESH network

## Hardware System

- CPU 880MHz dual core CPU
- FLASH 128MB
- DDR3 512MB

## Interfaces

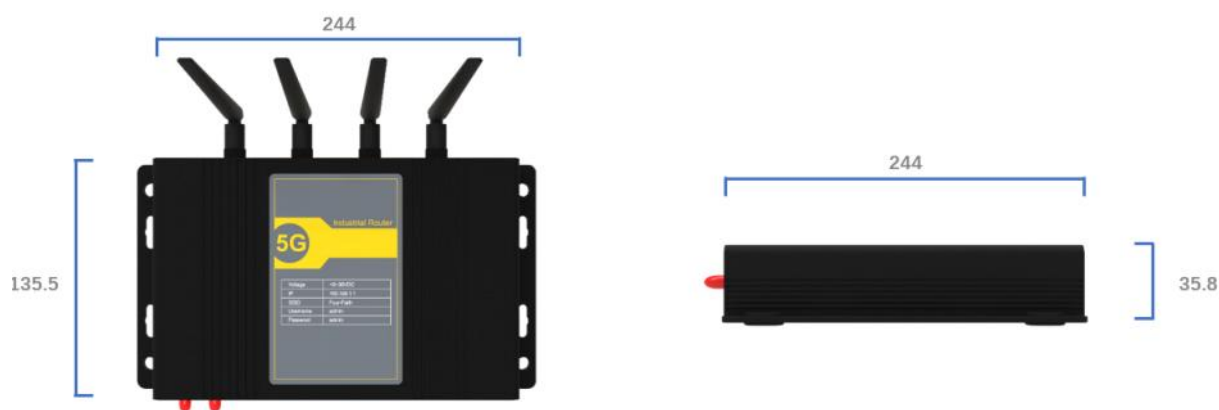
- WAN 1\*1G Ethernet (RJ45) Auto MDI/MDIX
- LAN 4\*1G Ethernet (RJ45) Auto MDI/MDIX
- Console 1 x RS232 (Built-in 1.5KV ESD)
- Indicators Signal, 5G, 4G, WIFI, Power
- SIM Card 2 x Standard drawer SIM card interface compatible patch eSIM
- Antenna
  - Cellular: 4 x SMA female, characteristic impedance 50 ohms
  - WIFI: 2 x SMA male, characteristic impedance 50 ohms
- Power 2.5mm DC interface built-in power reverse protection
- Reset Button Through this button, the parameter configuration can be restored to the factory

### Power Supply

- Standard DC 12V/1.5A (external power adapter 230Vac/12Vdc-1.5A included in the package)
- Range DC 9~36V
- Consumption <1.2A (12V)

### Physical Properties

- Shell Metal shell, protection grade IP30
- Size 244 \* 135.5 \* 35.8 mm (Does not include antenna and mounting parts)
- Weight 980g
- Operating Temperature -35~+70 °C
- Storage Temperature -40~+85 °C
- Relative Humidity 95% (No condensation)
- MTBF >130000Hours



Dimension (mm)

Ordering Code	Description
RTDI-5100-5G	<ul style="list-style-type: none"> <li>Cellular router (5G) 2.4G/5G, 4 LAN + 1 WAN/LAN Eth 1G, Dual SIM and eSIM, Wifi b/g/n/ac. IP30. IPv4/v6, VPN, Power supply 9 to 36VDC. Removables Antennas. 1 com RS232 + 1 COM RS485. Leds indicators. Power consumption 14Watts. Temp -35 °C to +75 °C. External power adapter 230Vac/12Vdc-1.5A included in the package.</li> </ul>
RTDI-5100-4G	Cellular router 4G NR / FDD LTE / TDD LTE / WCDMA,, 4 LAN + 1 WAN/LAN Eth 1G, Dual SIM and eSIM, Wifi b/g/n/ac. IP30. IPv4/v6, VPN, Power supply 9 to 36VDC. Removables Antennas. 1 com RS232 + 1 COM RS485. Leds indicators. Power consumption 14Watts. Temp -35 °C to +75 °C. External power adapter 230Vac/12Vdc-1.5A included in the package.

### Ordering Information



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