

RTDI-4336

4G Industrial Router



Introduction

RTDI-4336 4G Industrial Router is an IoT wireless communication router. It is using the public LTE cellular network to provide long distance, wireless and large data transmission function for users. It provides one RS232 (or RS485/RS422), four Ethernet LANs, one Ethernet WAN, and one WIFI interface to connect serial devices, Ethernet devices, and WIFI devices at the same time, realizing transparent data transmission and routing functions. The product has been widely used in the M2M industry of the Internet of the Things industry chains, such as smart power grids, smart transportation, smart home, finance, and other fields.

Industrial-grade Design

- High-performance industrial-grade wireless module
- High-performance industrial-grade CPU
- Using metal shell, protection grade IP30.
- Wide power input range DC 5~36V

Stability & Reliability

- WDT protection, ensure system stability
- Multiple protection mechanism to ensure system stability, always keeping online
- RS232/RS485/RS422 with built-in 15KV ESD
- SIM/UIM card slot with built-in 15KV ESD
- Power interface with built-in phase-reversal and over-voltage protection
- Antenna interface with lightning protection (optional)
- Ethernet interface with built-in 15KV ESD

Standard & Convenience

- Standard RS232 or RS422/RS485, ethernet and WIFI interface
- Intelligent data terminal, automatically enter transmission status after power-on
- Powerful central management software for easy device management (optional)
- Easy to use and flexible, has multiple working modes
- Support local and remote WEB or CLI access

High Performance

- Support multiple WAN access methods
- Support static IP, DHCP, L2TP, PPTP, PPPoE, 2G/3G/4G
- Support multiple DDNS provider service
- Support upgrade software from the local and remote maintenance Support NTP, RTC embedded
- Support VPN client (PPTP, L2TP, OPENVPN, IPSEC and GRE) (VPN version only)
- Schedule Online and Offline
- Support multiple online trigger ways, including SMS, ring, and data.
- Support DHCP server and client, firewall, NAT, DMZ host, URL block, QOS
- Support TCP/IP, UDP, FTP (Optional), and HTTP
- Support APN/VPDN

Specifications

Cellular Specification

- Standard and Band LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
- Theoretical Bandwidth
 - LTEE FDD: DL 100Mbps, UL 50Mbps
 - LTE TDD: DL 61Mbps, UL 18Mbps
 - DC-HSPA+: DL 42Mbps, UL 5.76Mbps
 - TD-HSPA+: DL 4.2Mbps, UL 2.2Mbps
 - EVDO Rev.A: DL 3.1Mbps, UL 1.8Mbps
- Transmit Power <23dBm
- Sensitivity <-97dBm

WIFI

- Standard and Band IEEE802.11b/g/n
- Theoretical Bandwidth
 - IEEE802.11b/g: 54 Mbps
 - IEEE802.11n: 150Mbps
- Security Encryption Support WEP, WPA, WPA2 and other encryption methods, WPS (optional)
- Transmitted Power 20dBm (11n), 24dBm (11g), 26 dBm (11b)
- Receive Sensitive <-72dBm @ 54 Mbps

Hardware System

- CPU Industrial-grade 32-bit CPU
- FLASH 16MB (optional for 64MB)
- DDR2 64MB

Interfaces

- WAN 1*10/100M Ethernet (RJ45) Auto MDI*MDIX, Built-in 1.5kV ESD
- LAN 4*10/100M Ethernet (RJ45) Auto MDI*MDIX, Built-in 1.5kV ESD
- Serial 1 x RS232 (or RS422/RS485), Built-in 1.5KV ESD
 - Data bit: 5, 6, 7, 8 Stop bit: 1, 1.5 (Optional), 2
 - Error detection: none, even, odd, SPACE (optional) and MARK (optional)
 - Serail speed port rate: 2400~115200bits/s
- LED Indicators PWR, SYS, WIFI, WAN, Local Network, Online-1, Online-2, Signal Indicator
- Antenna
 - Cellular: 2 standard SMA female antenna interfaces, impedance 50 ohms
 - WIFI: 1 standard SMA male antenna interfaces, impedance 50 ohms
- SIM/UIM Slot Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV
- Power Interface Standard 3-core locomotive power socket, with built-in phase-reversal and over-voltage protection
- Reset Button Can reset router's configuration to default factory setting by this button

Power Supply

- Standard DC 12V/1.5A
- Range DC 5~36V
- Power Consumption
 - Standby 293~326mA@12VDC
 - Communicating 310~554mA@12VDC
 - Timely shutdown 2.57~4.2mA@12DVC

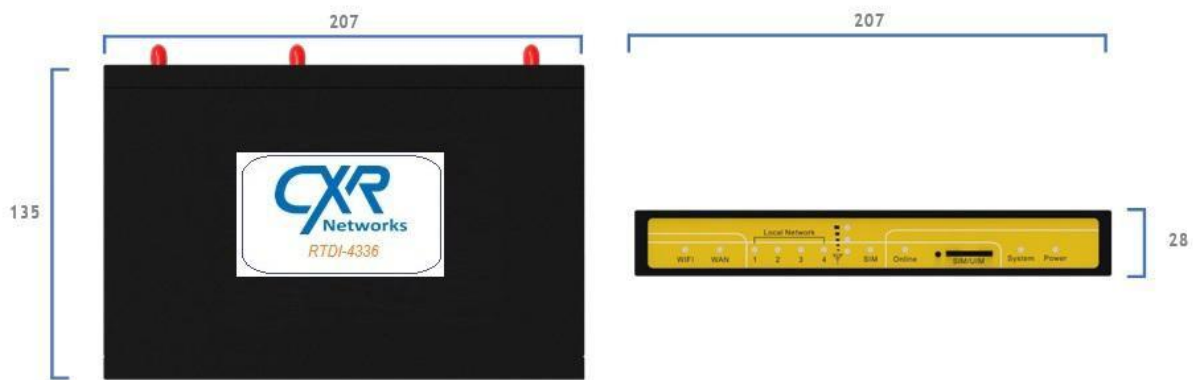
Physical Properties

- Shell Metal shell, protection grade IP30
- Size 207 * 135* 28mm (Does not include antenna and mounting parts)
- Weight 790g

Others

- Operating Temperature -35~+75 °C (-31~+167 °F)
- Storage Temperature -40~+85 °C (-40~+185 °F)
- Relative Humidity 95% (No condensation)

Dimension (mm)



Ordering Information

Ordering Code	Description
RTDI-4336	Wireless router 4G LTE -35 °C to +75 °C, 5 Ethernet 1G, Power 5-36Vdc. SIM card slot,2 remova-ble antennas. 1 com RS232 (RS422/485).



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