

RTDI-426-W

4G INDUSTRIAL IOT ROUTER



Introduction

RTDI-426-W is an IoT wireless communication router with the compact design and cost-effectiveness. It is using public cellular network GPRS/CDMA/WCDMA/EVDO/LTE to provide long distance, wireless and large data transmission function for users. The product has been widely used in the M2M industry of the IoT industrial chain, such as smart grid, intelligent transportation, smart home, finance, and etc.

Industrial-grade Design

- High-performance industrial-grade CPU
- High-performance industrial-grade wireless communication module
- Metal casing, IP30 protection level, suitable for most industrial control applications.
- Wide range power input (DC 5~36V)

Stability & Reliability

- WDT Watchdog design to ensure system stability
- Multiple protection mechanism to ensure system stability, always keeping online
- Ethernet interface with built-in 15KV ESD
- RS232/RS485 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)

Standard & Convenience

- Standard RS232/RS485, ethernet and WIFI interface, can be connected to the serial device, ethernet devices and WIFI devices
- Standard wired WAN interface (support standard PPPOE protocol), Can be connected to ADSL devices directly
- 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
- Convenient system configuration and maintenance interface (including local and remote WEB or CLI access)

High Performance

- Support dual-link intelligent switching function between primary card and backup card
- Support various WAN connection type, including static IP, DHCP, PPPOE, 2.5G/3G/4G
- Support remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS, etc.
- Support upgrade software from the local and remote maintenance
- Support various network protocols including TCP/IP, UDP, FTP (optional), HTTP, etc.
- Support SPI firewall, VPN traversal, access control, URL filtering, etc.
- Support 802.11 b / g / n WIFI network, support WIFI AP, AP Client, Bridge and various working mode (optional)

Product Specifications

Cellular Specifications

Standard and Band

- Support FDD-LTE B1/B2/B3/B4/B5/B7/B8/B28 Support TDD-LTE B38/B39/B40/B41
- Support TD-SCDMA: B34, B39
- Support HSPA+/UMTS B1/B2/B5/B8
- Support EV-DO: BC0
- CDMA 1x: BC0
- Support EDGE/GPRS/GSM 850/900/1800/1900MHz

Bandwidth

- FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps
- TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps
- TD-HSPA+: Downstream rate 4.2Mbps, uplink rate 2.2Mbps
- DC-HSPA+: Downstream rate 42Mbps, uplink rate 5.76 Mbps
- HSPA+: Downstream rate 21Mbps, uplink rate 5.76 Mbps
- UMTS: 384Kbps

Transmit Power

- <23dBm

Sensitivity

- <-97dBm

WIFI Specifications

Standard and Band

- IEEE 802.11b/g/n

Bandwidth

- IEEE802.11b/g: 54Mbps (Maximum)
- IEEE802.11n: 144Mbps (Maximum)

Security

- Support WEP, WPA, WPA2 encrypt methods, optional WPS function

Transmit Power

- 15 ± 2dBm

Sensitivity

- < -72dBm @ 54Mbps

Hardware System

CPU

- Industrial Grade CPU

Flash

- 16MB, 128MB (Optional)

DDR2

- 128MB

Interfaces

WAN Interface

- 1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD

LAN Interface

- 1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD

Serial

- 1 x RS232/485 serial interface with built-in 15KV ESD
- Data bits: 5, 6, 7, 8 bits
- Stop bits: 1, 1.5 (Optional), 2 bits
- Error detection: none, even parity, odd parity, SPACE (optional) and MARK (optional)
- Serial Port Rate: 2400~115200bits/s

LED Indicators

- "PWR", "Online", "LAN", "WAN/LAN", "WIFI"

Antenna Interface

- Cellular: Standard SMA female antenna interface, characteristic impedance: 50 Ω
- WIFI: Standard SMA male antenna interface, characteristic impedance: 50 Ω

SIM/UIM Slot

- Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD, support dual-SIM card(Optional)

Power Interface

- Standard 3.5mm terminal block interface, with built-in phase-reversal and over-voltage protection

Reset Button

- Can reset router's configuration to default factory setting by this button

Power

Input Voltage

- DC 12V/1.5A

Accepted Range

- DC 5~36V

Power Consumption

Standby

- 95~135mA@12VDC

Communicating

- 165~220mA@12VDC

Physical Properties

Casing

- Metal casing, IP30 protection level, suitable for most industrial control applications

Dimensions

- 93*89*24mm (excluding antennas and mountings).

Weight

- 250g

Others

Operating Temperature

- -35°C~+75°C

Storage Temperature

- -40°C~+85°C

Relative Humidity

- 95% non-condensing



Ordering Information

Ordering Code	Description
RTDI-426-W	Router 4G LTE 3G ,1 WAN 10/100BT, 1 LAN 10/100BT. IP30. IPv4/v6, VPN, Power 5-36VDC. 2 Antennas SMA, 1 com RS232 (RS422/RS485), Single standard SIM 5 leds. Power consumption 3W. Housing Metal shell, shock proof design, Operating Temp -35 °C ~ +75 °C . Dimensions 98x89x24 mm



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