

## RTDI-310 SERIES INDUSTRIAL 4G LTE ROUTER

### DESCRIPTION

#### Features

- Highly reliable and secure for mission-critical cellular communications
- Provide flexible options to configure LAN/WAN ports
- Support multi-brand connectivity with GSM/WCDMA/LTE FDD
- Built-in dual SIM for network redundancy
- High performance and secure VPN services
- GPS positioning
- Integrated dual detachable antenna against radio interference
- LED indicators for connection and data transmission status
- Industrial rated from -20 to 70°C for use in harsh environments

CXR RTDI-310 series 4G/LTE Router is a highly reliable and secure wireless communications gateway designed for industrial networking. It supports multi-brand connectivity including GSM, WCDMA and LTE FDD for a wide range of applications and vertical machine-to-machine (M2M) and Internet of Things (IoT) markets. To enhance reliability, RTDI-310 series is equipped with dual SIM that supports failover to ensure uninterrupted connectivity for mission-critical cellular communications.

With flexible LAN/WAN Ethernet options, RTDI-310 series allows you to customize your professional applications in diverse environments. RTDI-310 provides 2 or 4 Ethernet ports, 2 serial interfaces, 1 WiFi interface and 3 Digital Inputs and Outputs to connect any equipment through the mobile network. RTDI-310 has also a GPS option to serve geolocation requirements.

RTDI-310 embeds mission-critical software features, such as Quality of Service (QoS) for traffic



prioritization, IPsec, OpenVPN, Firewall security. The device is managed via a web GUI and HTTP/HTTPS, Telnet and SSH v1/v2.

Built for secure and uninterrupted operation in harsh environments, RTDI-310 series supports extended operating temperature from -20 to 70°C and a flexible input voltage range of 12-24V DC. CXR RTDI-310 series is an ideal cellular communications solution for mission critical networks.



## Industrial 4G LTE Router



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## SPECIFICATIONS

## LTE Interface

- GSM: 900/1800 MHz
- WCDMA: B1/B5/B8
- LTE FDD: B1/B3/B5/B7/B8/B20
- LTE TTD: B38/B40/B41
- LTE Cat. 4

## Interface

- High performance 528 MHz CPU with 512 Mbytes of DDR3 memory
- 2 x SIM Card Slots
- 1 x LAN 10/100 Mbps Ethernet ports (Model: RTDI-312 and -313)
- 3 x LAN 10/100 Mbps Ethernet ports (Model: RTDI-314, RTDI-315 and RTDI-317)
- 1 x WAN 10/100 Mbps Ethernet ports
- Reset Button
- Console: 1 x RS232 (9-pin Sub-D)
- 2 x SMA connectors for detachable LTE antenna
- 1 x GPS detachable antenna (RTDI-313, RTDI-315 and RTDI-317)
- 1 x Wi-Fi port (RTDI-317)
- 1 x RS485 (D+/D-)
- 1 x RS232 (TXD / RXD)
- 2 x DI, 1 x DO (Alarm +/-)

## Wi-Fi Interface

- IEEE 802.11b/g/n Wi-Fi Standards
- WiFi band: 2.4Ghz
- AP and STA modes

## LED Display

- 1 x System LED (Green)
- 1 x VPN status LED (Green)
- 1 x SIM1 status LED (Green)
- 1 x SIM2 status LED (Green)
- Ethernet Status LED (Green for LINK/ACT, Yellow for SPEED)
- 2 x Mobile Connection strength LEDs (Green)

## Dimension

- Dimensions (WxHxD) 60x110x106 mm
- Aluminum enclosure with DIN rail clip

- IP 40 Protection
- 19" mounting : (option)
- External antenna (option)

## Software

- IPv4, IPv6, IPv4/IPv6 dual stack
- NAT, Static Routing and RIP-1/2, OSPF, VRRP
- Modbus, Message Queue Telemetry, BGP Transport (MQTT), virtual COM
- DMZ, MAC Filter, URL filter, IP Filter
- SNTP, DNS relay and DDNS
- IGMP Snooping and IGMP Proxy
- Supports DHCP server/client/relay
- Firewall Security (Port forwarding & Port filtering), Virtual Server, DMZ
- QoS
- OpenVPN, IPsec (AES-128/256, 3DES, MD5, SHA-1/256), GRE, PPTP, L2TP
- Virtual Com
- SMS
- Alarm: SNMP Trap, SMS, email on Di/Do, VPN/WAN disconnect
- UPnP

## Management Software

- Web GUI for remote and local management
- Local or Remote management via Telnet, SSH v2, HTTP/HTTPS, SNMP, TR069
- Software upgrade Web GUI, Dual Image
- Dual Image firmware upgrade by Web GUI
- Syslog monitor

## Power requirement

- Power Input 10 ~ 32 V DC
- Maximum Power Consumption 7 W

## Environment

- Operating Temperature -20 ~ 70°C
- Storage Temperature -40 ~ 85°C
- Hygrometry 10 ~ 95% (non-condensing)
- MTBF : 148,930 hrs (MIL-HDBK-217-FN2)
- Safety: EN60950-1
- EMC : CE, EN-55022, EN-55024, FCC Part 15, Class A

## ORDERING INFORMATION

<b>RTDI-312</b>	Wireless router GPRS/UMTS/HSPA+LTE, 900/1800/1900/2100/2300 MHz bands, DIN-rail case -20°C to +70°C, ports: 2 Ethernet, 1 RS232, 1x RS485, 2 removable antennas, power supply 12-24Vcc.
<b>RTDI-314</b>	Wireless router GPRS/UMTS/HSPA+LTE, 900/1800/1900/2100/2300 MHz bands, DIN-rail case -20°C to +70°C, ports: 4 Ethernet, 1 RS232, 1x RS485, 2 removable antennas, power supply 12-24Vcc.
<b>RTDI-313</b>	Wireless router GPRS/UMTS/HSPA+LTE, 900/1800/1900/2100/2300 MHz bands, DIN-rail case -20°C to +70°C, ports: 2 Ethernet, 1 RS232, 1x RS485, 2 removable antennas, GPS receiver and SMA connector, power supply 12-24Vcc.
<b>RTDI-315</b>	Wireless router GPRS/UMTS/HSPA+LTE, 900/1800/1900/2100/2300 MHz bands, DIN-rail case -20°C to +70°C, ports: 4 Ethernet, 1 RS232, 1x RS485, 2 removable antennas, GPS receiver and SMA connector, power supply 12-24Vcc.
<b>RTDI-317</b>	Wireless router GPRS/UMTS/HSPA+LTE, 900/1800/1900/2100/2300 MHz bands, IEEE 802.11b/g/n Wi-Fi standards, DIN-rail case -20°C to +70°C, ports: 4 Ethernet, 1 RS232, 1x RS485, 2 removable antennas, GPS receiver and SMA connector, power supply 12-24Vcc.
<b>RTDI-CA-ANT-4G-3M-MAG</b>	Removable antenna 4G, magnetic mounting, 3m cable RG174, SMA-N connector, 698-960Mhz /1710-2700Mhz, gain 3dBi
<b>RTDI-CA-ANT-4G-3M-AV</b>	Removable antenna 4G, anti-vandal, 3m cable RG174, SMA-N connector, 698-960Mhz /1710-2700Mhz, gain 2.5dBi

The information contained in this document are not contractual.

CXR continuously improves its products, specifications are subject to change without notice.