RTDI-302
4G/LTE HARDENED ROUTER

MULTI BAND
GSM / WCDMA   LTE FDD
_____

COMPACT
LIGHTWEIGHT
_____

COST EFFECTIVE
_____

HARDENED
8VDC/48VDC
-30°C / +70°C
DIN RAIL
_____

WIFI
HOTSPOT
_____

DESCRIPTION

CXR RTDI-302, compact, lightweight and cost-effective Industrial 4G LTE Cellular Routers, are built in 2-port fast Ethernet connection as well as support 2G/3G/4G mobile networks for wired and wireless communication in harsh environments. Equipped with RS232 serial port and digital input/output interfaces, the RTDI-302 is simple to configure and collect real-time data transmission quickly for Industrial IoT and machine-to-machine applications. The RTDI-302 is also compliant with IEEE 802.11b/g/n Wi-Fi connectivity and provide 2 SSID's.

Featuring VPN Tunnels, Firewall, TR069, and SNMP Trap, CXR RTDI-302 Industrial 4G LTE Cellular Routers enhance highly secure authentication, encryption and management to protect your data efficiently between public and private networking. Supporting -30~+70°C wide temperature operation and flexible input voltage range of 8-48VDC for diverse environments and various applications.

RTDI-302

CXR RTDI-302 Industrial 4G LTE Cellular Routers are suitable and reliable choices for fast deployment and easy configuration to simplify your complicated solutions and fit your services for industrial networking and smart city.

SPECIFICATIONS

Cellular Interface

- Standards:
  - · 4G: FDD LTE, TDD LTE
  - · 3G: WCDMA
  - · 2G: GSM/EDGE
- LTE Data Rate: Cat 4, 150Mbps (DL), 50Mbps (UL)

Wi-Fi Interface (RTDI-212-W Model)

- Compliant with IEEE 802.11 b/g/n Wi-Fi standards
- 2.4 GHz radio band for wireless
- 2T2R 300 Mbps wireless operation rate
- Wireless security with WPA2-PSK(AES)
- Multiple SSIDs
- Wireless MAC Filtering
- Wireless client isolation

Hardware Interface

- High Performance 550 MHz SoC with 128MByte Flash
- 1 x Micro SIM Connector (push-push type)
- 1 x LAN 10/100 Mbps Ethernet port
- 1 x WAN 10/100 Mbps Ethernet port
- WPS / RESET Button
- 1 x RS232 (TXD/RXD/GND)
- 1 x DI (Non-Isolated), 1 x DO (Non-Isolated)
- 2 x SMA connectors for detachable LTE Antenna
- 2 x RP-SMA connectors for detachable Wi-Fi Antenna (RTDI-212-W Model)
- 1 x SMA connector for detachable GPS antenna

Physical Characteristics

- Enclosure : Metal Case
- Dimensions (W x H x D) : 91mm x 28mm x 74mm
- Weight : 250 g (0.5512 lb)
- Installation : DIN Rail / Wall Mount

LED Display

- 1 x Power LED
- 1 x Ethernet LED for each port (LAN/WAN)
- 1 x RSSI LTE LED
- 1 x Function LED (User define by Web)

Power Supply

- Power Consumption   7 Watts(Max)
- Power Input   8 ~ 48VDC

Software

- **Network Protocols:**
  IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker), BGP, Flow (Modbus master ↔ MQTT client)
- **Routing/Firewall:**
  NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2, IPS, Policy Route
- **VPN:**
  OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP
- **Wireless Connectivity:**
  WAN WiFi Client
- **Others:**
  DDNS, QoS, UPnP, SMS Action, GPS Track Drawing, GPS TCP Push
- **Alarm:**
  DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail, TR069

Management Software

- Web GUI for remote and local management, CLI
- Syslog monitor
- SNMP, TR069
- FOTA (Firmware over the Air)
- Remote management via SSH v2, HTTPS
- Local management via Telnet, SSH v2, HTTP/HTTPS

Environment

- Operating Temperature   -30 ~ +70°C
- Storage Temperature   -40 ~ +85°C
- Ambient Relative Humidity   10 ~ 95% (non-condensing)
- Humidity   0 ~ 95% (non-condensing)

Standards and Certifications

- **EMC :** CE, FCC
- **EMI :** EN 301489 , FCC Part 15B Class B
- **EMS :** EN 301489
- **Vibration :** IEC60068-2-6
- **Radio :** EN 301511, EN 301908-1, EN 301908-2, EN 301908-13, EN 300328, EN 303413, EN 62311

**RTDI-302
INDUSTRIAL
4G/LTE
ROUTER**

ORDERING REFERENCES

RTDI-302	Compact Industrial Wi-Fi 4G LTE Cellular Router (1 x WAN, 1 x LAN, 1 x RS232 , 1 x DI, 1 x DO, 1 x micro SIM Slot, GPSx1, Wi-Fi, -30 ~ +70°C). Accessories include : Din Rail adapter, Wallmount kit, 2 WiFi Antenna, 2 4G antenna, 1 GPS antenna.