RTDI-415

4G-LTE Secured Router with Modem and Dial-Up Interface

4G / LTE
_____

POTS
MODEM
_____

SECURED
VPN Firewall
HW&SW Secure-Boot
_____

RUGGEDIZED
Extended temperature
High EMI

Description

RTDI-415   4G/LTE Router is a highly reliable and secured wireless communication gateway designed for industrial networking. It supports multiband 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.

RTDI-415 is especially aimed at serving the migration of Plain Old Telephone Systems and long lasting voice frequency modem communications. **RTDI-415** embeds a **FXS interface and a multimode V21 -V34 modem** that emulate the Public Switched Telephone network over 4G/LTE.

RTDI-415 delivers flexible connectivity to multiple applications over **Ethernet, FXS - modem.**

Built for secure and uninterrupted operation in harsh environments, **RTDI-415** supports extended operating temperature from -20 to 70°C and a flexible input voltage range of 12-48V DC. **CXR RTDI-415** series is an ideal cellular communications solution for mission critical networks.
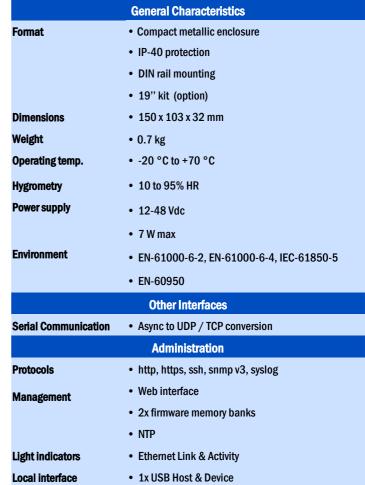
Applications

RDTI-400 is an ideal 4G-LTE Mobile Network gateway to the following networking requirements :

- Electricity, Water, Oil and Gas Utility substations : thanks to its embedded POTS interface and modem to connect long lasting systems (RTU etc.) from their Modem, Serial and Ethernet communication interfaces through the IP and 4G-LTE Cellular networks

- Transport and Smart City infrastructures : thanks to its versatile interfaces to traffic controller, message display, gate control, traffic counters, etc.

- Security sensitive networks : thanks to its security features - VPN, ACL, firewall, 802.1X authentication, Radius and TACACS authentications, PKI, but also extended security mechanisms including Secure-Boot and hardware coded security.

Specifications

4G/LTE Network

Standards	• LTE FDD: B1/B3/B5/B7/B8/B20 • WCDMA: B1/B5/B8 • GSM: 850/900/1800/1900 MHz
Physical	• 1 or 2x SIM cards • 2x SMA connectors

Ethernet Interfaces

RTDI-415	• 1x LAN 10/100 BaseT

PSTN modem

PSTN Interface	• FXS, 600 Ohms
Modem	• V21, V22, V22Bis, V23, V32, V32Bis, V34 • V42, V42Bis, NMP4-5

Protocoles

Routing	• IP v4, IP v6, dual stack • NAT
VPN	• OpenVPN • IPSec
Security	• Firewall • ACL, MAC and IP filtering, DMZ • Secure-Boot, PKi
Others	• DNS • DynDNS • SNTP • QoS • DHCP Server, Client, Relay • UPnP • SMS • Alarm

General Characteristics

Format	• Compact metallic enclosure • IP-40 protection • DIN rail mounting • 19'' kit (option)
Dimensions	• 150 x 103 x 32 mm
Weight	• 0.7 kg
Operating temp.	• -20 °C to +70 °C
Hygrometry	• 10 to 95% HR
Power supply	• 12-48 Vdc • 7 W max
Environment	• EN-61000-6-2, EN-61000-6-4, IEC-61850-5 • EN-60950

Other Interfaces

Serial Communication	• Async to UDP / TCP conversion

Administration

Protocols	• http, https, ssh, snmp v3, syslog
Management	• Web interface • 2x firmware memory banks • NTP
Light indicators	• Ethernet Link & Activity
Local interface	• 1x USB Host & Device

Product References

Reference	4G-LTE	GNSS	Ethernet	FXS	RS232/485	DI / DO
RTDI-415	1	-	1	1	-	-

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