Siretta
Enabling Industrial IoT

QUARTZ-GOLD-LTE4 (EU)

4G Dual LAN Small Footprint Gigabit Ethernet Industrial Router

Key Features

- European 4G / LTE bands
- ARM Cortex A7 900MHz
- 2 x Gigabit Ethernet ports (100/1000Mb)
- Strong resistance to electromagnetic interference
- Built-in watch dog, multi-link detection
- Small footprint industrial design
- Excellent temperature endurance -30 to +75 deg C
- VPN: OpenVPN, PPTP, L2TP, GRE, IPSec
- WAN failover network redundancy
- WiFi: 2.4GHz and 5GHz
- Shock and vibration resistance
- 2 x LAN, 1 x WAN / 1 x LAN

General Description

Siretta's QUARTZ-GOLD router is a high performance industrial router designed for transferring large amounts of data via the European LTE Cat 4 cellular network, with dual built in Gigabit Ethernet ports. The QUARTZ-GOLD's fast data transfer capability reaches up to 150Mbps download and up to 50Mbps upload speed. It also has fall-back to 3G/UMTS communication, should 4G/LTE be unavailable. It is well suited for IoT/mobile broadband applications, offering reliable, secure wireless connectivity.

The QUARTZ-GOLD router has a robust design, encased in a small sized, metal enclosure, making it ideal for deployment in industrial embedded applications. The QUARTZ-GOLD software supports VPN security allowing the router to be used in commercial as well as industrial applications. The QUARTZ-GOLD router meets many of the needs for management of remote communication and therefore has applications in renewable energy, security, digital signage, transport, street furniture, traffic control, parking systems, environmental monitoring, and many other IoT/mobile broadband applications.

The QUARTZ-GOLD router comes as standard with a single SIM slot, dual port gigabit ethernet capability and optional GNSS capability, which means the router is ideal for asset tracking or access management applications.

Gigabit WAN failover is supported to provide network redundancy for your connected gigabit LAN using the fast LTE Cat 4 cellular network.

Additional Features

- Supports DHCP server
- Supports DNS proxy and Dynamic DNS (DNSS)
- Supports timing operation
- Supports LED status indication
- Supports APN
- Supports 802.11 a/b/g/n/ac Wifi
- Optional GNSS
- Local and remote management
- SNMP network management, NTP support
- WAN supports PPPoE
- Static DHCP

Registered in England No. 08405712
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Cellular

» 2G frequency bands:
B3 (1800MHz), B8 (900MHz)
» 3G frequency bands:
B1 (2100MHz), B8 (900MHz)
» 4G frequency bands:
B1 (2100MHz), B3 (1800MHz)
B7 (2600MHz), B8 (900MHz)
B20 (800MHz), B28A (700MHz)
B38 (2600MHz), B40 (2300MHz)
B41 (2500MHz)

Interfaces

» 2 x Gigabit Ethernet - configurable
(1 x LAN, 1 x LAN/ 1 x WAN)
» 2 x LTE SMA female antenna interface
» 1 x standard SIM/R-UIM interface
» 1 x standard DC power interface
» 1 x 5 pin terminal block connector
» 1 x DC power (anti reverse)
» 1 x RS232 serial interface
» 2 x RP SMA WiFi interface

Optional Interfaces

» 1 x GNSS antenna interface
» 1 x RS485 serial interface

Environmental

» Dimensions: 103mm x 73.5mm x 23.5mm
(without antenna)
» Weight: 320g
(without accessories)
» Operating Temperature Range: -30 to +75 deg C
» Storage Temperature Range: -40 to +85 deg C
» Relative Humidity: <95% Non-condensing

Approvals and Compliance

» CE
» RoHS
» CCC

Power

» Idle: 165mA @ +12VDC
» Power supply: 7.5 - 32VDC
» Online without WiFi: 195mA @ +12VDC
» Online with WiFi: 235mA @ +12VDC

Network

Network Protocol

» IPv4
» PPPoE
» UDP/TCP/ICMP/NTP/DHCP
» HTTP/HTTPS
» UPNP / NAT-PMP
» SNMP

Network Features

» LTE/LAN/WLAN failover
» VLAN (Up to 16)
» Bandwidth management
» Static NAT/DMZ
» IP passthrough/port redirection
» Static/dynamic routing (OSPF / RIP)

Network Monitoring/Control

» ICMP check
» Traffic check
» Traceroute
» Packet capture compatible with Wireshark
» Real-time bandwidth graph
» Real-time data traffic graph
» LinkCONNECT serial gateway
» Syslog service
» Remote web access

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