

## QUARTZ-LTE (EU)

4G Dual LAN, DUAL SIM, DIGITAL I/O Industrial Router



### Key Features

- European 4G / LTE bands
- 1 x linkCONNECT (RS232 to TCP/IP)
- 3 x Digital I/O
- High speed data via UMTS & LTE network
- Strong resistance to electromagnetic interference
- Built-in watch dog, multi-link detection
- Industrial, robust design with metal housing
- Dual SIM for failover / backup between network
- WAN supports PPOE, Static IP, DHCP Client
- VPN: PPTP/L2TP/GRE/IPIP/IPSec
- MIMO Antennas
- Optional WiFi / Optional GNSS
- DIN Rail adapter clip

### General Description

Siretta's QUARTZ 4G/LTE router is a high speed industrial router designed for transferring large amounts of data via the cellular network. The QUARTZ 4G/LTE's fast data transfer capability reaches up to 100Mbps 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 4G/LTE router is of a robust design, coming in a small sized, metal enclosure, making it ideal for deployment in industrial embedded applications.

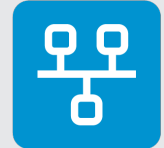
Cellular coverage is designed to match European frequencies. The QUARTZ software means VPN security is supported, allowing the router to be used in commercial as well as industrial applications. The QUARTZ 4G/LTE router meets many of the needs for management

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 4G/LTE router, has an array of features to empower your application. These include a dual SIM facility meaning you can configure a back-up cellular network between two different SIM cards, to ensure permanent reliable connection regardless of individual network availability. In addition, the QUARTZ 4G/LTE has dual port Ethernet capability, RJ45 serial RS232 linkCONNECT port and 3 digital I/O, and comes as standard with MIMO antennas on 4G, but it has the option to come with, or without, Wifi. It also has optional GNSS capability, which means the router is ideal for asset tracking or access management.

### Additional Features

- » Supports DHCP server
- » Supports DNS proxy and Dynamic DNS (DNSS)
- » Supports timing operation
- » Supports LED status indication
- » Supports APN and VDPN wireless private network access
- » Supports 802.11b/g/n WiFi, 150Mbps data rate
- » Local and remote management
- » SNMP network management, NTP support
- » LCP/ICMP/flow/heartbeat check



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### Cellular

- » 2G frequency band:  
B3 (1800MHz), B8 (900MHz)
- » 3G frequency band:  
B1 (2100MHz), B5 (850MHz), B8 (900MHz)
- » 4G frequency band:  
B1 (2100MHz), B3 (1800MHz), B5 (850MHz)  
B7 (2600MHz), B8 (900MHz), B20 (800MHz)  
B38 (2600MHz), B40 (2300MHz), B41 (2500MHz)

### Interfaces

- » 2 x 10/100Mb LAN (2 x LAN)
- » 1 x RS232 linkCONNECT port (RJ45)
- » 3 x DI/O (Digital Input/Output - user defined)
- » 1 x 3G/4G SMA female antenna interface
- » 2 x standard SIM/R-UIM interface
- » 1 x standard DC power interface

### Optional Interfaces

- » 1 x 10/100Mb LAN, 1 x WAN
- » 1 x GNSS SMA female antenna interface
- » 1 x WiFi SMA female antenna interface

### Environmental

- » Dimensions: 102mm x 100mm x 42mm  
(without antenna)
- » Weight: 350g  
(without antenna)
- » Operating Temperature Range: -30 to +70 deg C
- » Storage Temperature Range: -40 to +85 deg C
- » Relative Humidity: <95% Non-condensing

### Power

- » Idle: 213mA@+12VDC
- » Communications: 265mA@+12VDC
- » Power supply: 5 - 32V DC

### Approvals and Compliance

- » CE
- » RoHS
- » CCC

### Router Settings

#### Route Protocol

- » Static route
- » RIPv2/OSPF dynamic route

#### Device Management

- » Local or remote web browser (IE v8 or above)
- » CLI/Telnet command
- » M2M management platform (optional)
- » SSH management (optional)

#### Firewall and Filter

- » IP packet/Domain/MAC filter
- » NAT
- » DMZ

#### LED Instruction

- » PWR
- » Signal
- » WLAN
- » ERR
- » LAN (LAN, LAN/WAN)

#### VPN

- » IPSec
- » PPTP/L2TP client
- » GRE/IPIP
- » OpenVPN client

#### WiFi

- » Standard: IEEE 802.11b/g/n
- » WEP, WPA and WPA2 encryption
- » Standard 150Mbps, 300Mbps optional (with additional antenna)