Siretta
Enabling Industrial IoT

QUARTZ-UMTS (EU)
3G Dual port LAN, Dual SIM, DIGITAL I/O Industrial Router

Key Features

- 3G 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
- Optional WiFi / Optional GNSS
- DIN Rail adapter clip

General Description

Siretta's QUARTZ 3G/UMTS router is a high speed industrial router designed for transferring large amounts of data via the cellular network. The QUARTZ 3G/UMTS 's fast data transfer capability reaches up to 21Mbps download and up to 5.76Mbps upload speed. It also has fall-back to 2G/GPRS communication, should 3G/UMTS be unavailable.

It is well suited for IoT/mobile broadband applications, offering reliable, secure wireless connectivity. The QUARTZ 3G/UMTS router is of a robust design, coming in a small sized, metal enclosure, making it ideal for deployment in industrial embedded applications.
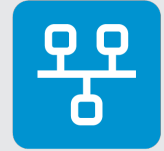
Cellular coverage is designed to match European frequencies. The QUARTZ software means VPN security is supported, allowing the router to be used in commercial as well as industrial applications. The QUARTZ 3G/UMTS router meets

many of the needs for management of remote communication, and therefore, has applications in security, digital signage, CCTV, vending, street furniture, traffic control, telemetry, parking systems & environmental monitoring, and many other IoT/mobile broadband applications.

The QUARTZ 3G/UMTS 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 3G/UMTS has dual port Ethernet capability, RJ45 serial RS232 linkCONNECT port and 3 digital I/O. 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

Cellular

- » UMTS:
  1900(B2), 2100(B1)MHz

Interfaces

- » 2 x 10/100Mb LAN (2 x LAN)
- » 1 x RS232 linkCONNECT port (RJ45)
- » 3 x I/O (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)