Siretta
Enabling Industrial IoT

QUARTZ-LITE-BACKUP-LTE (EU)
4G Compact Network Backup Industrial Router

Key Features

- LAN redundancy over 4G / LTE network
- European 4G / LTE bands
- High speed data via LTE network
- Strong resistance to electromagnetic interference
- Built-in watch dog, multi-link detection
- Compact industrial design
- Excellent temperature endurance
- VPN: PPTP, L2TP, GRE, IPSec
- 1 x Local LAN, 1 x Remote WAN

General Description

Siretta's QUARTZ-LITE-BACKUP-LTE router is a compact, high speed industrial router designed for transferring large amounts of data via the cellular network. The QUARTZ-LITE-BACKUP-LTE router has been designed to constantly monitor the existing router gateway (xDSL/Fibre/Leased Line/WiMAX/Cable/Mobile) for internet access or local DHCP Server/Proxy Server. If and when the internet service becomes unavailable the router automatically switches to the LTE cellular network. This provides a consistent backup internet connection for the local LAN infrastructure to allow connected equipment to continue to operate without interruption.

The QUARTZ-LITE-BACKUP-LTE's fast data transfer capability reaches up to 150Mbps download and up to 50Mbps upload speed which provides a very capable backup service to the existing internet service provider. The router also has fallback to 3G communication should 4G/ LTE be
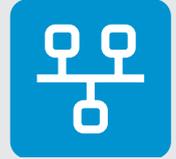
unavailable. The 3G network offers speeds up to 21Mbps download and 7.2Mbps upload which will continue to provide low speed access for services running on the existing network. The QUARTZ-LITE-BACKUP-LTE router is well suited for high reliability IoT/broadband applications, offering reliable, secure wireless backup connectivity.

The QUARTZ-LITE-BACKUP-LTE router has been designed to operate in industral environments and has a robust design, in a compact metal enclosure. This makes it ideal for deployment in embedded applications where space is at a premium.

The QUARTZ-LITE-BACKUP-LTE router is equipped with a single SIM slot, single 10/100 ethernet LAN 'Network' port and a single 10/100 ethernet WAN 'Internet' port. Once connected to the local network the router will monitor the local network and provide high speed mobile broadband internet when the local service fails.

Additional Features

- » Provides high speed mobile internet backup service when local network fails
- » Constantly monitors local network and automatically switches to mobile internet for uninterrupted service
- » Automatic failover to 3G when 4G / LTE is unavailable
- » Supports DHCP server
- » Supports DNS proxy and Dynamic DNS (DNSS)
- » Supports LED status indication
- » Supports APN and VDPN wireless private network access
- » Local and remote admin management

General Features

» LTE (European):
  B20 (800MHz), B5 (850MHz), B8 (900MHz),
  B3 (1800MHz), B1 (2100MHz), B7 (2600MHz)

» UMTS (European):
  B5 (850MHz), B8 (900MHz), B1 (2100MHz)

Interfaces

» 1× 10/100Mb LAN 'Network' interface

» 1× 10/100Mb WAN 'Internet' interface

» 2× SMA-K antenna interface

» 1× Standard SIM/R-UIM interface

» 1× Standard DC power interface

Environmental

» Dimensions: 103mm x 73.5mm x 23.5mm
  (without antenna)

» Weight: 300g
  (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: 80mA @ +12V DC

» Single mode comms: 320mA @ +12V DC

» Dual mode comms: 600mA @ +12V DC

» Power Supply: 7.5V - 32V DC

Approvals and Compliance

» CE

» RoHS

» CCC

Router Settings

Supported Protocol

» WAN Ping Monitoring

» DHCP

» DNS / DDNS

» APN / VDPN

» ICMP

Route Protocol

» Static route

» RIPv2/OSPF dynamic route

Device Management

» Local or remote web browser (IE v8 or above)

» CLI/Telnet command interface

» SSH management

» M2M management platform (optional)

Firewall and Filter

» IP packet/Domain/MAC filter

» NAT

» DMZ

LED Instruction

» WLAN

» WAN

» LAN

» NET

VPN

» OpenVPN

» IPSec

» PPTP/L2TP client

» GRE/IPIP