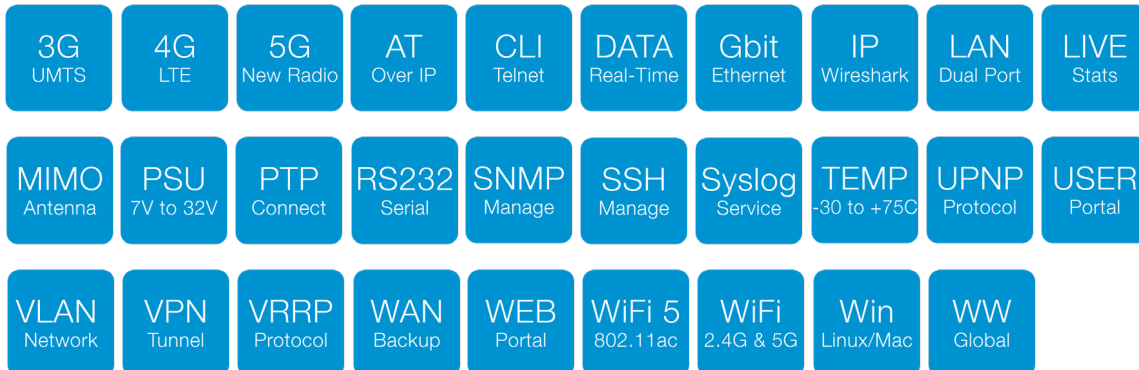# Siretta
Enabling Industrial IoT

QUARTZ-GOLD-5G
5G 2 x LAN, Single SIM, Low Latency Industrial Router

Key Features

- 5G/4G/3G industrial router
- Supports 5G SA/NSA ultra speed network
- MIPS Dual-core 880 MHz
- 256 Mb Flash
- 2 Gb DDR3 RAM
- 2 x Gigabit Ethernet ports
- Resilient against strong magnetic interference
- Metal enclosure for tough industrial applications
- VPN: PPTP/L2TP/L2TP V3/GRE/IPSec/Open VPN
- Optional Wi-Fi
- 1 × DC Power Interface (7.5 to 32 V DC)

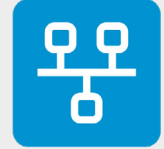| 3G UMTS	4G LTE	5G New Radio	AT Over IP	CLI Telnet	DATA Real-Time	Gbit Ethernet	IP Wireshark	LAN Dual Port	LIVE Stats
MIMO Antenna	PSU 7V to 32V	PTP Connect	RS232 Serial	SNMP Manage	SSH Manage	Syslog Service	TEMP -30 to +75C	UPNP Protocol	USER Portal
VLAN Network	VPN Tunnel	VRRP Protocol	WAN Backup	WEB Portal	WiFi 5 802.11ac	WiFi 2.4G & 5G	Win Linux/Mac	WW Global	

General Description

The QUARTZ-GOLD-5G is powered with a Mediatek 880 MHz MIPS dual-core processor with 256 Mb flash and 2 Gb of DDR3 RAM which drives the Linux based operating system.

A Quectel RM-520N-GL module is driven by the Qualcomm Snapdragon X55 5G Modem which provides the cellular capabilities of the QUARTZ-GOLD-5G and is manufactured on a leading edge 7 nm semiconductor fabrication process.

With Two Gigabit Ethernet interfaces, the QUARTZ-GOLD-5G also offers a RS232 interface that may be used to connect serial ports on products such as door access control panels and alarm panels to the Internet.

Rev 1.1

Siretta

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Additional Features

» Supports DHCP server

» Supports DNS proxy and Dynamic DNS (DDNS)

» LED status lights

» Supports 802.11 a/b/g/n/ac wireless standards (Option)

» Supports captive portal

» Local and remote management

» SNMP network management, NTP support

» LCP/ICMP/flow/heartbeat check

Cellular

» 5G:
n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n28/n29/n30/n38/ n40/n41/n66//n70/n71//n75/n76/n77/n78/n79

» LTE:
B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/ B34/B38/B39/B40/B41/B42/B43/B46/B48/ B66/B71

» WCDMA:
B1/B2/B4/B5/B8/B19

Interfaces

» 2 x GbE- configurable (1 x LAN, 1 x LAN/ 1 x WAN)

» 1 x RS232 (based on 2 wire interface)

» Wi-Fi: 802.11 a/b/g/n/ac (With Wi-Fi option)

» 1 x SIM Slot

» 4 x SMA (Female) 5G Antenna Interface

» 2 x SMA-RP Wi-Fi (If equipped with Wi-Fi)

Environmental

» Ruggedised industrial enclosure

» Dimensions: 103 mm x 73.5 mm x 28 mm (without antenna)

» Approx Weight: 320g (not including accessories and model dependent)

» Operating Temperature Range: -30 to +75 °C

» Storage Temperature Range: -40 to +85 °C

» Relative Humidity: 0 - 95% Non-condensing

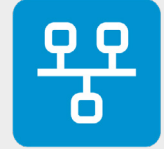## Router Settings

Network Protocols

» IPv4

» PPPoE

» UDP/TCP/ICMP/NTP/DHCP

» Modbus/TCP

» HTTP/HTTPS

» SNMP

Network Features

» Cellular/WAN failover

» VLAN

» Bandwidth management

» NAT/DMZ

» IP passthrough/port redirection

» Static/dynamic routing

VPN

» PPTP/L2TP V3

» GRE

» IPSec

» OpenVPN

Data Rates*

5G SA Mode

»   Maximum downlink speed: 2.4 Gbps

»   Maximum uplink speed: 900 Mbps

5G NSA Mode

»   Maximum downlink speed: 3.4 Gbps

»   Maximum uplink speed: 550 Mbps

LTE

»   Maximum downlink speed: 1.6 Gbps

»   Maximum uplink speed: 200 Mbps

WCDMA (3G)

»   Maximum download speed: 42 Mbps
    (DC-HSDPA)

»   Maximum uplink speed: 5.76 Mbps
    (HSUPA)

*Speeds will be dependent on network connection, base station Internet capability, signal strength, environmental conditions, etc.

Power Specifications

»   Idle: 600 mA @ +12VDC

»   Communications: 850 mA @ +12VDC

Accessories

If the router is ordered with accessories, you will receive the following:

»   Power supply with multi-region adapters

»   Power interface cable

»   LAN cable

»   Magnetic cellular antenna extenders

»   Cellular antennas

»   Wi-Fi antennas (only with Wi-Fi router option)

Approvals and Compliance

»   CE

»   UKCA

»   FCC (TBC)

»   RoHS

Models Available

Industrial 5G GbE LAN Ethernet Router
QUARTZ-GOLD-21-5G (GL) - Stock Code 61901
QUARTZ-GOLD-21-5G (GL) + ACCESSORIES - Stock Code 61902

Industrial 5G Wi-Fi GbE LAN Ethernet Router

QUARTZ-GOLD-W21-5G (GL) – Stock code 61867
QUARTZ-GOLD-W21-5G (GL) + ACCESSORIES - Stock Code 61896