

## 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 x 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

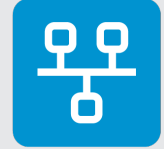
The QUARTZ-GOLD 5G is powered with a Mediatek 880 MHz MIPS dual-core processor with 256 Mb flash and 2 Gb of DDR3 RAM which drives the Linux based operating system.

A Quectel RM500QAE 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.

Wi-Fi is available as an option.

Gigabit WAN failover is supported to provide network redundancy for your connected gigabit LAN using the 5G NR or LTE Cat 4 cellular network.



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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/n20/n25/n28/n38/  
n40/n41/n66/n71/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/B3/B4/B5/B6/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 (with-out 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

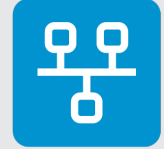
- » IPv4
- » PPPoE
- » UDP/TCP/ICMP/NTP/DHCP
- » Modbus/TCP
- » HTTP/HTTPS
- » SNMP

#### Network Features

- » Cellular/WAN failover
- » VLAN
- » Bandwidth management
- » NAT/DMZ
- » IP passthrough/port redirection
- » Static/dynamic routing

#### VPN

- » PPTP/L2TP V3
- » GRE
- » IPSec
- » OpenVPN



## QUARTZ-GOLD-5G

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### Data Rates\*

#### 5G SA Mode

- » Maximum downlink speed: 2.1 Gbps
- » Maximum uplink speed: 450 Mbps

#### 5G NSA Mode

- » Maximum downlink speed: 2.5 Gbps
- » Maximum uplink speed: 650Mbps

#### LTE

- » Maximum downlink speed: 1.0 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

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