



QUARTZ-ONYX

5G NR Industrial Router

Quick Start Guide

Rev 1.2

Whats in the Box?

This quick start guide is intended for the QUARTZ-ONYX router



GPS Model



Non-GPS Model

Common Accessories

If you ordered a router with accessories, you will also receive the following items:



Ethernet Cable



Multi-Head Power Adapter



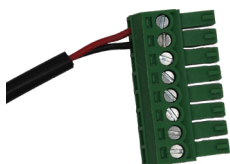
Cellular Antenna x4



WiFi Antenna x2



GPIO Connector



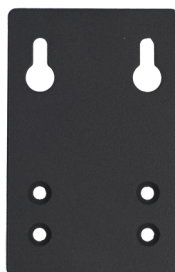
Power Cable and Connector



**Magnetic Mount Antenna
Extender x4**



DIN Rail Adapter



Wall Mount Bracket

NOTE - Both the DIN Rail Adapter and Wall Mount Bracket are supplied with x2 screws.

Optional Accessories

If you ordered a QUARTZ-ONYX with accessories and opted for GPS, then you will also receive a GPS antenna.



GPS Antenna

Additional Items

You will require the following items for configuring your router:

- » SIM that is subscribed to a 5G service with APN details
- » Screwdriver to open the SIM cover
- » PC to configure the router

Step 1: SIM: Use a screwdriver to open the SIM cover on your router.



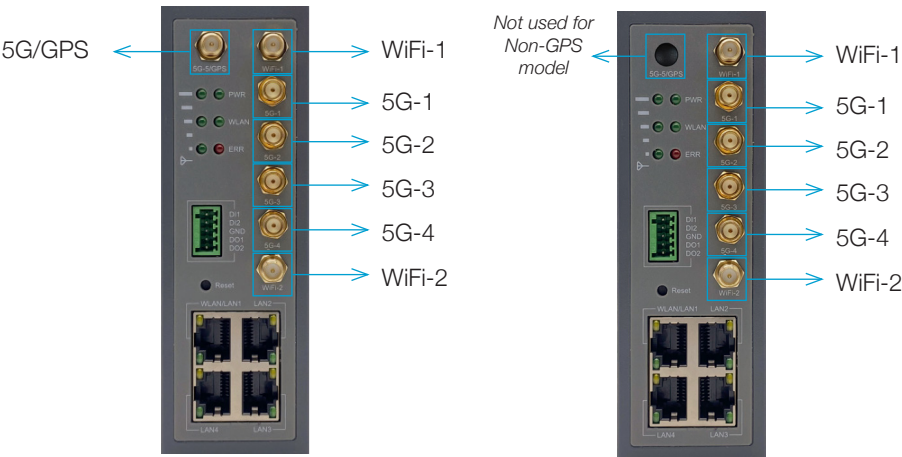
Step 2: SIM: Insert a SIM card fully into the SIM slot. Close the SIM cover, ensuring it is screwed back into place. (SIM slot 1 is in use illustrated below)



Step 3: ANTENNA CONNECTIONS: Screw in the 4 magnetic cellular antenna extensions onto the router. Twist the connector clock-wise until the extension is firmly connected. Repeat process for the 2 WiFi antennas onto the router (the cellular antennas must be attached to the magnetic antenna extension).



If you have a GPS router, connect the GPS antenna to the GPS connector on the router.



Step 4: LAN CONNECTION: Connect one end of the Ethernet cable into the router LAN port, connect the other end of the cable into an Ethernet port on your PC.



Step 5: POWER: Plug in the green power connector on the power adapter cable into the router as shown below.



Step 6: POWER: Select connector type for your power adaptor depending on your geographical location (UK/EU/USA/AU). Plug the power adaptor to the mains.

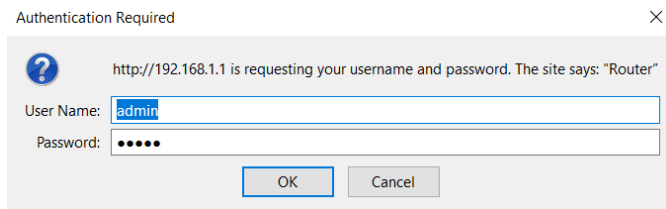


Step 7: POWER: Switch on the power. See table below for LED indications when router is powered on.

Table 1. Router LED indication

Label	Indication		Meaning
Signal 1 Signal 2 Signal 3	Green	Solid	Signal strength bar graph when connected to the Internet. Read highest lit LED. Signal 3: Strong (CSQ 20-31) Signal 2: Good (CSQ 11-19) Signal 1: Weak (CSQ 0-10)
Signal 1	Green	Blinking Solid	Connected to cellular, obtaining IP address Online, connected to the Internet
PWR	Green	Off Solid	No power applied to QUARTZ-ONYX QUARTZ-ONYX powered
WLAN	Green	Off Blinking Solid	WLAN not enabled Data transfer in progress Enabled, no data transfer in progress
ERR	Red	Off Solid	Connected to Cellular network No cellular connection. See note below.

Step 8: LOG IN: Obtain the default IP address, username and password of your router. You can find this on the silver label on the back of your router. Type in the IP address of your router into your PC browser. When prompted for your username and password use the following:



Authentication Required

http://192.168.1.1 is requesting your username and password. The site says: "Router"

User Name:

Password:

OK Cancel

These credentials are factory defaults. You can set your own user name and password in the router settings.

Step 9: APN SET-UP: On successful login, navigate to the Basic Network > Cellular tab.

When you arrive at the 'Cellular Settings' page, you will need to enter the APN details for the network provider of your SIM card.

In the image below, we have used the APN details relevant for "EE". These being:

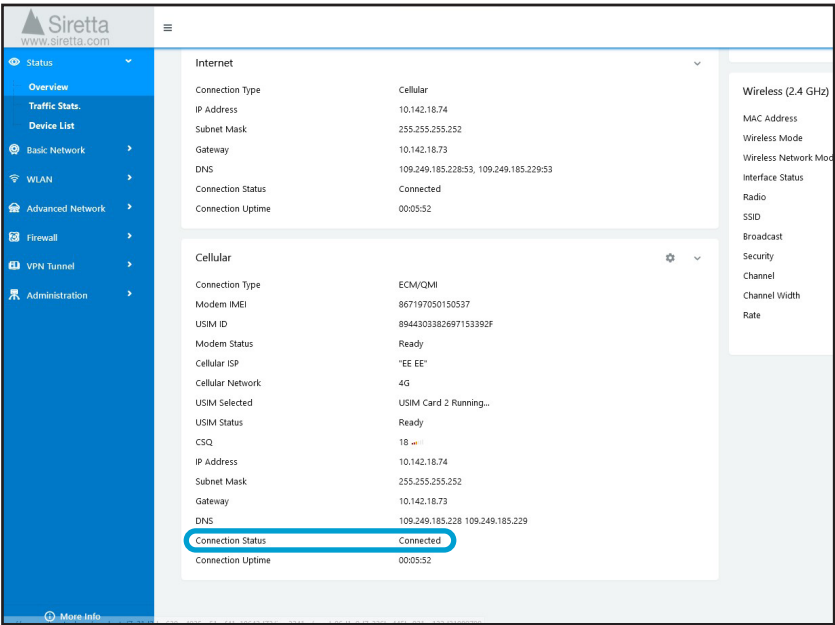
- APN: everywhere
- Username: eesecure
- Password: secure



You are not required to enter any 'Proxy' or 'Port' details.

A screenshot of the Siretta web interface. The left sidebar shows a navigation menu with options like Status, Basic Network, WAN, Cellular, LAN, VLAN, Schedule, DDNS, Routing, WLAN, Advanced Network, Firewall, VPN Tunnel, and Administration. The 'Cellular' tab is selected. The main content area is titled 'Cellular Settings' and includes a warning: 'You haven't changed the default password for this router. To change router password, [click here](#).' Below this, there's a section for 'SIM 1' with various configuration fields. The fields are: SIM 1 Mode (set to 'Auto'), SIM 1 5G Mode (set to 'SA & NSA'), SIM 1 PIN Code (empty), SIM 1 APN (set to 'everywhere'), SIM 1 User (set to 'eesecure'), SIM 1 Password (masked with '*****'), SIM 1 Dial Number (set to 'type'), SIM 1 Auth Type (set to 'Auto'), and SIM 1 Local IP Address (empty). At the bottom of the SIM 1 section are 'Save' and 'Cancel' buttons.

Step 10: CONNECTING TO NETWORK: Click “Save”. Your router will reboot itself. The router will then connect to the network and is ready for use with your application.



NOTE - If you cannot access the router GUI, please check your local area network settings.

Further Information

For more information when using your router, a range of application notes, hardware and software user manuals are available to download. You can request these from your Siretta representative, alternatively these can be downloaded from www.siretta.com



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