



Enabling Industrial IoT



QUARTZ-ONYX

5G NR Industrial Router

Quick Start Guide

Rev 1.1

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.



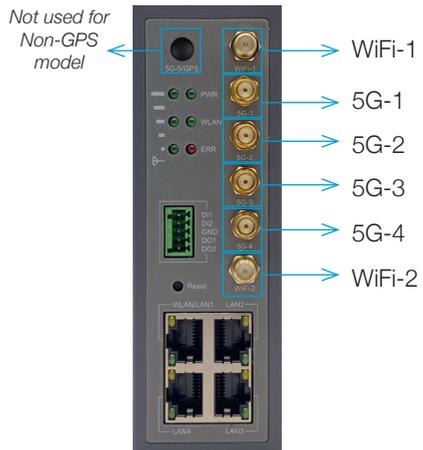
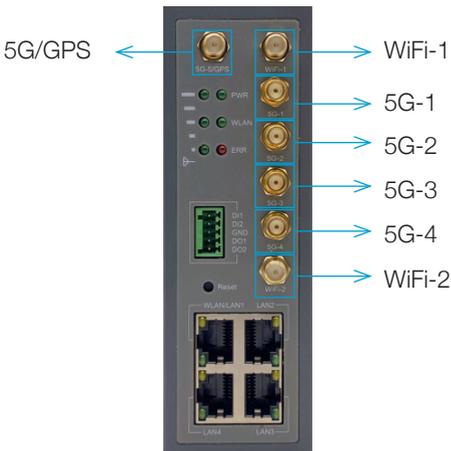
Step 2: SIM: Insert a SIM card fully into the SIM slot. Close the SIM cover, ensuring it is screwed back into place. (SIM slot 1 is in use illustrated below)



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: IP ADDRESS: Obtain the IP address of your router. You can find this on the silver label on the back of your router. Type the IP address of your router into your PC browser. When prompted for your user name and password use the following:

User name: admin

Password: admin

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

Authentication Required ×

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

User Name:

Password:

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

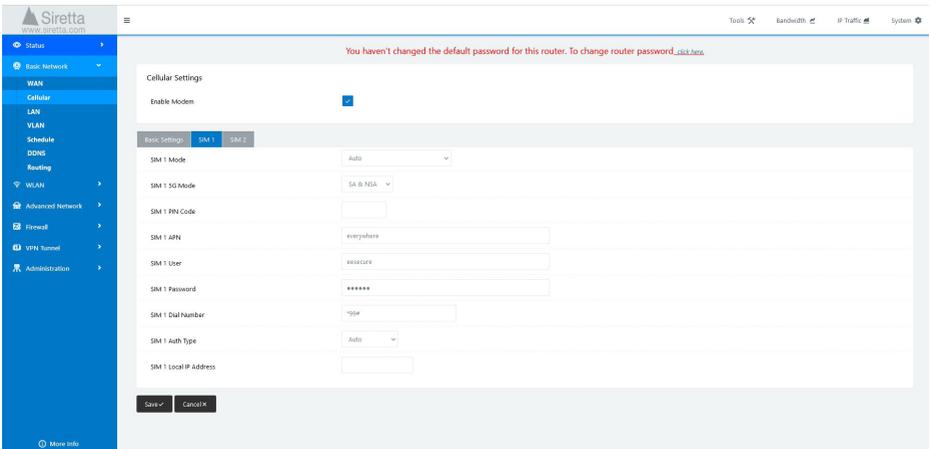
When you arrive at the 'Cellular Settings' page, you will need to enter the APN details for the network provider of your SIM card.

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

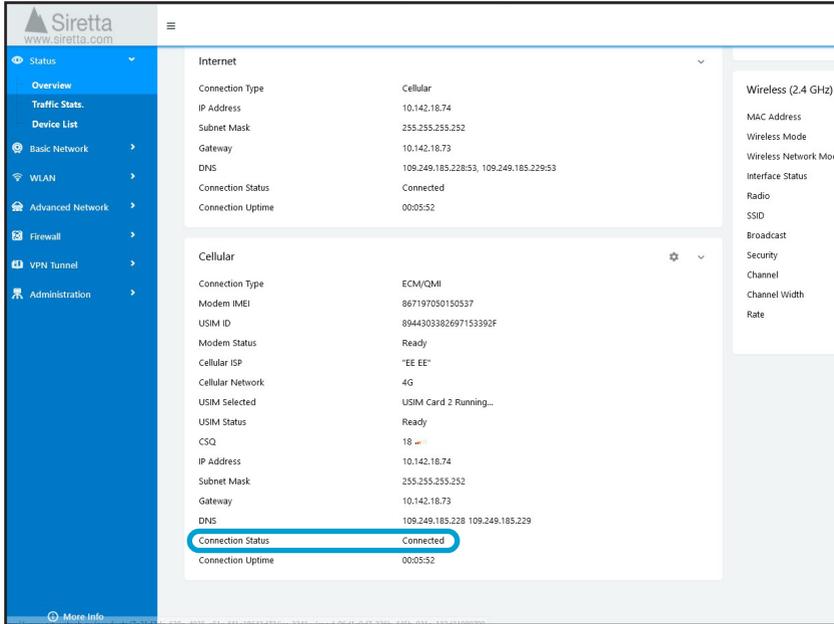
- APN: everywhere
- Username: eesecure
- Password: secure



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



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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sales +44 (0)118 976 9000

email sales@siretta.com

www.siretta.com

Siretta Ltd
Basingstoke Road
Spencers Wood
Reading
Berkshire
RG7 1PW
United Kingdom

Company No. 08405712
VAT Registration No. GB163 04 0349



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