



Siretta

Enabling Industrial IoT



QUARTZ-GOLD 5G NR

5G NR Industrial Router

Quick Start Guide

Rev 1.0

Whats in the Box?

This quick start guide is intended for the Siretta QUARTZ-GOLD 5G Series Routers.



Common Accessories

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



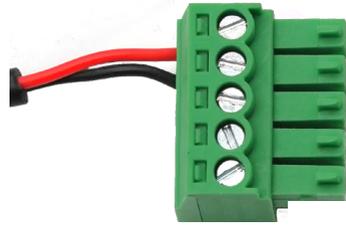
Ethernet Cable



Power Adaptor



Cellular Antenna x4



Power Cable and Connector



Magnetic Mount Antenna Extender x4



The QUARTZ-GOLD 5G DIN Rail adapter does not come as a standard part of the accessories kit, but is available separately. Please specify when ordering

Optional Accessories

If you ordered a router with accessories and have opted for Wi-Fi, then you will also receive the following items:



WiFi Blade x2
(For routers with Wi-Fi antenna)

Additional Items

You will require the following items for configuring your router:

- » SIM that is subscribed to a 5G service with APN details
- » Paperclip or SIM card Removal Tool to eject the SIM tray
- » PC to configure the router

NOTE - Please ensure your antenna and SIM card are appropriate for the router you are using.

Step 1: Use a paperclip or Sim Card Removal Tool to eject the SIM tray on the router.



Step 2: Insert a SIM card into the SIM tray. Close the SIM tray, ensuring it is seated back in place.



Step 3: Screw the cellular antennas to the main antenna connectors on the router. Twist the antenna connector clock-wise until the antenna is firmly connected. It is recommended to use the supplied magnetic mounts for maximum cellular performance.



Connect the 2 Wi-Fi antennas marked "Wi-Fi1" and "Wi-Fi2" by twisting the antenna connector clock-wise until the antenna is firmly connected.



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 the green power connector on the power adapter cable into the router as shown below. Plug the 2.1mm centre pin connector from the plug-top power supply in to the other end of the power adapter cable.



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

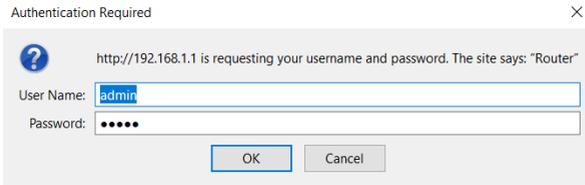
Label	Indication		Meaning
WLAN	Green	Solid	WLAN connected
		Blinking activity	WLAN connected, LAN network activity
		Off	WLAN disconnected
WAN	Green	Solid	WAN connected
		Blinking activity	WAN connected, WAN network activity
		Off	WAN disconnected
LAN	Green	Solid	LAN connected
		Blinking activity	LAN connected, LAN network activity
		Off	LAN disconnected
Cellular	Green (good cellular signal) Red (poor cellular signal)	Slow blink	Registering to cellular network / Cellular disabled / No SIM inserted
		Fast blink	Connected to cellular network, obtaining IP address
		Solid	Connected to cellular network & connected to Internet

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.



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

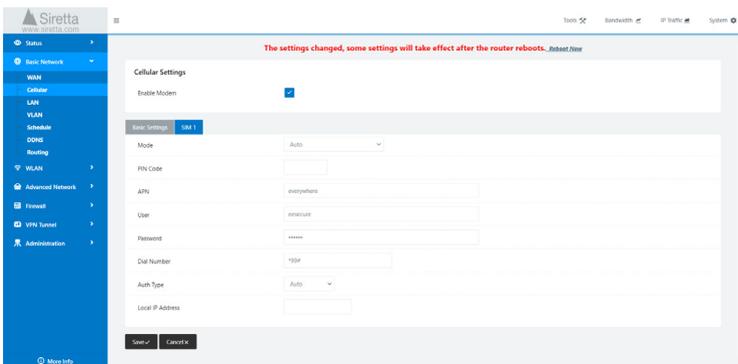
When you arrive at the 'Cellular Settings' page, you will need to enter the APN details for the network provider of your SIM card.

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

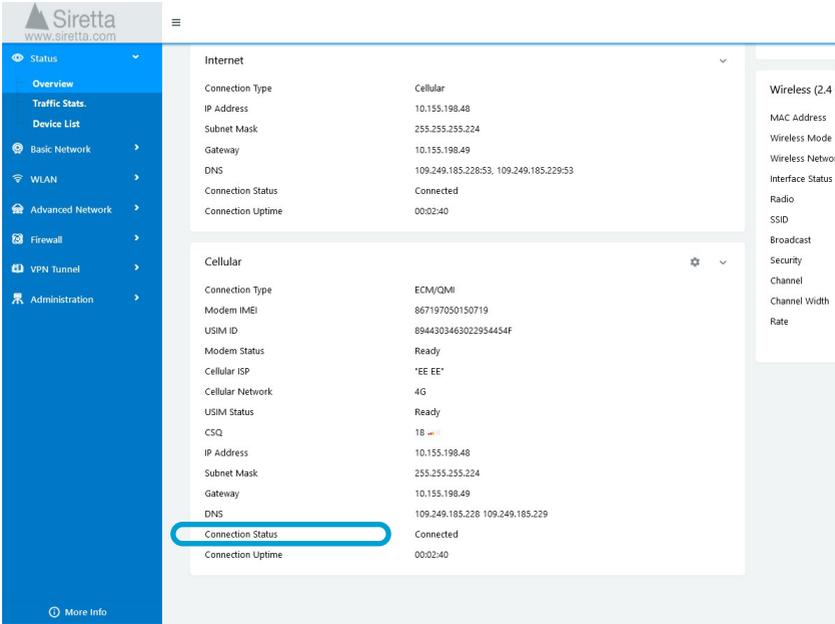
- APN: everywhere
- Username: eesecure
- Password: secure



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.



The screenshot shows the Siretta router's web interface. The left sidebar contains navigation menus for Status, Overview, Traffic Stats, Device List, Basic Network, WLAN, Advanced Network, Firewall, VPN Tunnel, and Administration. The main content area is divided into two sections: Internet and Cellular. The Internet section shows connection details for a Cellular connection, including IP Address (10.155.198.48), Subnet Mask (255.255.255.224), Gateway (10.155.198.49), DNS (109.249.185.228/53, 109.249.185.229/53), Connection Status (Connected), and Connection Uptime (00:02:40). The Cellular section shows details for an ECM/QMI connection, including Modem IMEI (867197050150719), USIM ID (8944303463022954454F), Modem Status (Ready), Cellular ISP (*EE EE*), Cellular Network (4G), USIM Status (Ready), CSQ (18), IP Address (10.155.198.48), Subnet Mask (255.255.255.224), Gateway (10.155.198.49), DNS (109.249.185.228, 109.249.185.229), Connection Status (Connected), and Connection Uptime (00:02:40). A red circle highlights the 'Connected' status in the Cellular section. On the right side, there is a 'Wireless (2.4)' section with various settings like MAC Address, Wireless Mode, Wireless Network, Interface Status, Radio, SSID, Broadcast, Security, Channel, Channel Width, and Rate.

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



Enabling Industrial IoT

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



Rev 1.0