Siretta

Enabling Industrial IoT

Siretta Routers

Quick Start Guide

Rev 1.2

Whats in the Box?

This quick start guide is intended for all Siretta routers.
For reference, we have used a QUARTZ-GW22-UMTS (EU) 3G router.

As standard, you will receive one of the following routers:

QUARTZ

QUARTZ-LITE

QUARTZ-COMPACT

Common Accessories

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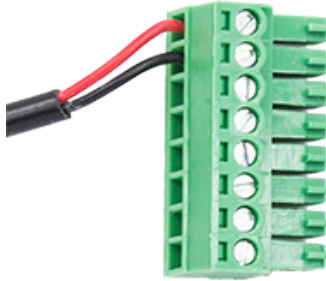

Ethernet Cable

Power Adaptor

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Cellular Antenna

Power Cable and Connector (QUARTZ Series only)

DIN Rail Adaptor (QUARTZ and QUARTZ-COMPACT Series only)

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

NOTE - For LTE routers, the kit may be supplied with an additional cellular antenna. This means the router is capable of MIMO (Multiple Inputs, Multiple Outputs) cellular communication.

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Optional Accessories

If you ordered a router with accessories and have opted for either WiFi and/or GPS variants, then you will also receive one or both of the following items:

WiFi Antenna

(For routers with WiFI option)

GPS Antenna

(For routers with GPS option)

Additional Items

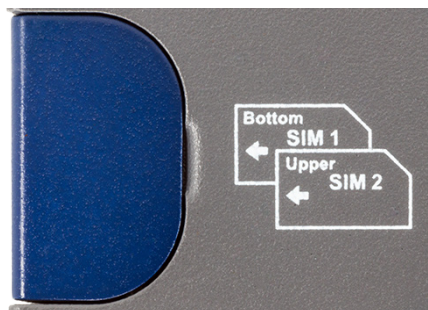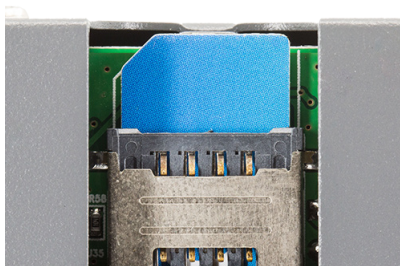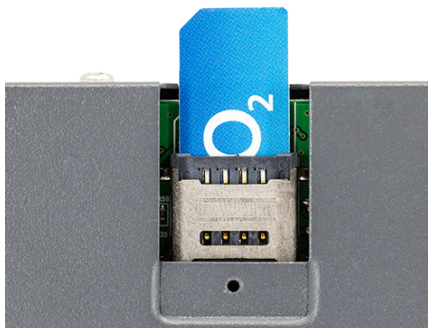You will require the following items for configuring your router:

»   3G or 4G SIM card with APN details

»   Screwdriver to open the SIM cover

»   PC to configure the router

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

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
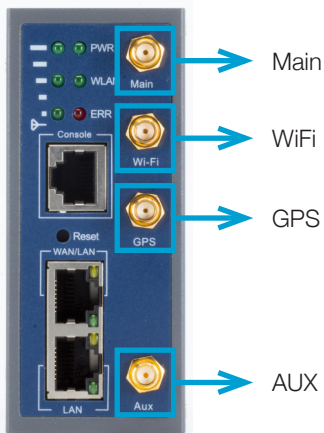
Step 3: ANTENNA CONNECTIONS: Screw the cellular antenna to the main antenna connector on the router. Twist the antenna connector clock-wise until the antenna is firmly connected.

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

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

If you have an LTE router that has been supplied with a 2nd cellular antenna for MIMO, then attach this to the AUX connector on the router.
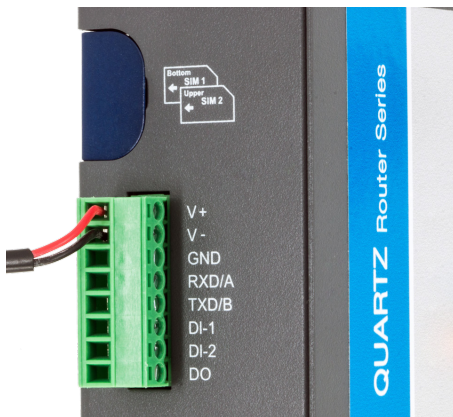
Step 4: LAN CONNECTION: Connect one end of the Ethernet cable into the router LAN port, connect the other end of the cable into an Ethernet port on your PC.

Step 5: POWER: For QUARTZ-LITE: Plug the plug-top power supply into your router using the 2.1mm centre pin connector.

For QUARTZ & QUARTZ-COMPACT: Plug the green power connector on the power adapter cable into the router as shown below. The example shown is for the QUARTZ model. A similar concept applies to the QUARTZ-COMPACT. 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.
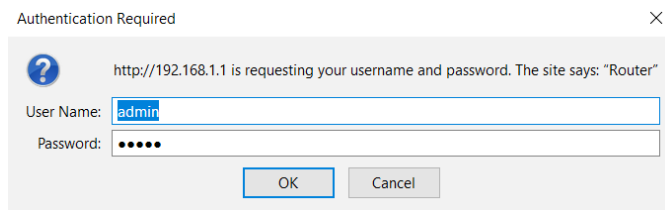
Table 1. Router LED indication

LED colour	State
PWR Green when ON	If this LED is OFF, ensure power adaptor is connected correctly and mains power is switched on.
WLAN Green when ON	Router WiFi is enabled. If this LED is OFF, WiFi is not enabled or supported.
ERR Red when ON	Router is not registered to the network. Check the SIM card is inserted correctly.
Signal Strength Green when ON	If only one LED is on, check the antenna position or try a different location.
Green LAN when ON	LAN cable is connected. If this LED is OFF, check both ends of the LAN cable are connected properly.

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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: admin

Password: •••••

OK   Cancel

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.

System Status

Router Name	Router
Hardware Version	C11-D20
Firmware Version	Router-4.3.4.1
Router Time	Fri, 11 Jan 2019 09:38:39 +0000 Clock Sync.
Uptime	00:04:38
Total / Free Memory	60.05 MB / 47.54 MB (79.15%)

Internet Status

Connection Type	Cellular Network
MAC Address	34:0A:82:27:21:15
Modem Type	3G-MU709S:WCDMA/HSPA+
Modem IMEI	869845023315839
Modem Status	**Ready**
USIM Select	**USIM 1 Running**
Cellular ISP	"EE"
Cellular Network	"WCDMA"
USIM Status	**Ready**
CSQ	13 (41%)
IP Address	10.136.164.140
Subnet Mask	255.255.255.255
Gateway	10.64.64.64
DNS	10.4.0.240:53, 10.4.0.230:53
Connection Status	Connected
Connection Uptime	00:03:45
Main Card Lease Time	... ...
Back Card Lease Time	... ...

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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