



Siretta Quartz-Compact Series Single Port Compact LTE Router Instruction Manual

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Introduction

The QUARTZ-COMPACT Series is a range of UMTS / LTE routers enabling mobile broadband and machine to machine (M2M) industrial communication.

This document is aimed at providing guidance when configuring and using the QUARTZ-COMPACT Series router software.

Configuration of the QUARTZ-COMPACT router can be done via the web using any of the following: Internet Explorer, Firefox, or Chrome. Throughout this document, Internet Explorer 9.0 is used as the example browser.

About Siretta

Siretta is a wireless communications company located in Reading, United Kingdom manufacturing & supplying industrial IoT products since the early 2000s.

Siretta's product portfolio is made up of:

- » Antennas, plus their associated Cable Assemblies & Adapters,
- » Cellular Network Analysers
- » Industrial Modems
- » Industrial Routers
- » Associated Cloud Management

Siretta supplies products directly and via a worldwide network of distributors, into numerous markets and applications across the globe.

Siretta's distribution partners range from industrial IoT specialists through to global catalogue organisations.

Whether "off the shelf" or custom solutions are required, Siretta has a wide portfolio of products to fit many types of application.

Siretta's extensive knowledge and experience in the wireless market allows support of a wide range of customer applications, focusing on frequencies between 150 MHz to 6 GHz. These encompass modems, routers and antennas for:

- » Cellular technologies: GSM/GPRS/3G/UMTS/4G/LTE & 5G NR, plus LTE CAT 1, LTE CAT M & LTE CAT NB-IoT
- » Global positioning: GPS/GNSS
- » WLAN/Wi-Fi

Whilst providing the above products for the industrial cellular market, Siretta also has a number of antennas to cover applications for:

- » Bluetooth, Zigbee, ISM band, LoRa and Sigfox

With a heavy emphasis on design, Siretta has a team of dedicated Engineers and Product Managers, who specialise in wireless applications.

Siretta continually makes significant investment in R&D endeavouring to provide customers with market leading,

future-proofed, wireless solutions. Siretta works closely with many technology partners to stay at the forefront of industrial IOT.

General Description

The Siretta QUARTZ-COMPACT router series is a range of high speed industrial cellular routers in a compact enclosure. The QUARTZ-COMPACT series is offered in 3G / WCDMA/UMTS and 4G / LTE forms giving reliable, secure and high speed wireless connectivity.

The QUARTZ-COMPACT router range has a number of standard options, such as GPS, and 1 x LAN interface. Additionally QUARTZ-COMPACT routers are available, as standard with or without an accessory kit comprising: cellular antennas, PSU and LAN cable.

VPN features can also be configured in the QUARTZ-COMPACT routers, enabling utilization of a virtual private network service through a 3G wireless router designed for the stresses and workload of a modern industrial or commercial environment.

The QUARTZ-COMPACT router series is a high build quality range of routers designed for use in industrial environments needing high performance and a robust hard enclosure as standard. The QUARTZ-COMPACT range is designed for remote management, telemetry, condition monitoring, CCTV, ATMs, vending machine and other M2M applications.

Its compact small size design, enables the QUARTZ-COMPACT router to easily be embedded into other equipment or systems. With the GPS option, the QUARTZ-COMPACT router is ideal for fleet tracking or access management.

Local Configuration

The QUARTZ-COMPACT Series router supports configuration by local Ethernet port, you can specify a static IP or DHCP get IP for your computer.

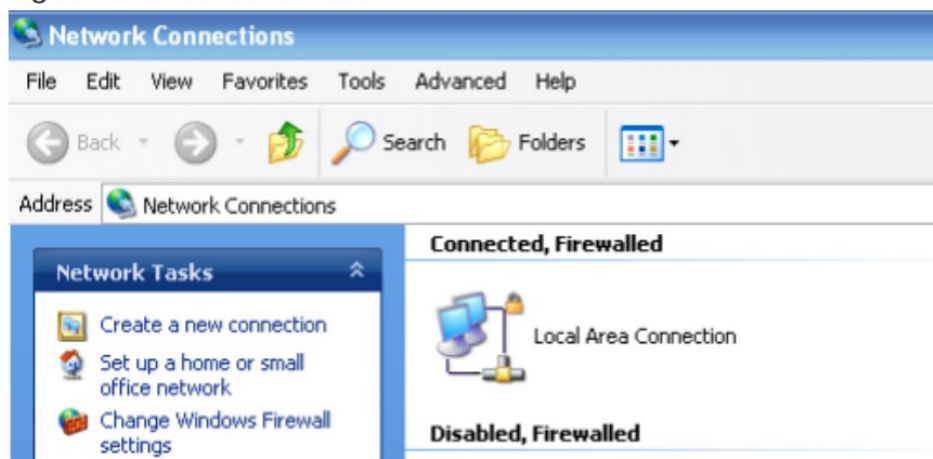
Default IP address: 192.168.1.1

subnet mask: 255.255.255.0

Follow the steps below to configure your router locally:

Step 1. Click “Start > Control Panel”, find the “Network Connections” icon and double click it to enter. Select “Local Area Connection” corresponding to the network card. (See figure 1 below)

Figure 1. Network connection



Step 2. Obtain an IP address automatically or set up IP address as: 192.168.1.xxx

NOTE – XXX can be any number between 2~254

Step 3. Open Internet Explorer and visit “<http://192.168.1.1/>”, to enter identify page.

Step 4. User should use the default user name and password when logging in for the first time.

Username: admin

Password: Obtain the default password on the silver label on the back of your router.

Figure 2. User identify interface

Sign in

http://10.50.1.23

Your connection to this site is not private

Username

Password

Basic Configuration

Different software versions have different web configuration interfaces, in this example we use version 2.6.0. After visiting the web interface, you can check the current status of the router or modify the router configuration via the web interface. Below is the interface displaying the routers standard settings.

Figure 3. Router status GUI

Status

- Overview
- LAN
- Device List
- Basic Network
- Advanced Network
- Firewall
- VPN Tunnel
- Administration
- Debugging
- Logout

System Status

Router Name	Router
Hardware Verion	C11-D20
Firmware Version	Router-4.2.2.3
Router Time	Thu, 13 Dec 2018 14:40:42 +0000 <input type="button" value="Clock Sync.."/>
Uptime	00:25:07
Total / Free Memory	60.08 MB / 53.12 MB (88.42%)

Internet Status

Connection Type	Cellular Network
MAC Address	02:1E:10:1F:00:00
Modem Type	LTE(Huawei ME90X)
Modem IMEI	867377021133925
Modem Status	Ready
Cellular ISP	"EE"
Cellular Network	"EDGE"
USIM Status	Ready
CSQ	14 -
IP Address	10.254.225.47
Subnet Mask	255.255.255.224
Gateway	10.254.225.33
DNS	109.249.185.224:53, 109.249.186.32:53
Connection Status	Connected
Connection Uptime	00:18:06

Cellular Network Configuration

Step 1. Select "Basic Network > Cellular" here you can modify cellular and SIM parameters according to your application.

Figure 4. Cellular settings

Status

Basic Network

Cellular

LAN

DDNS

Routing

Advanced Network

Firewall

VPN Tunnel

Administration

Debugging

Logout

Router

Cellular Settings

Cellular Network TypeME90X:LTE/HSPA+/WCDMA

ICMP Check☐

Cellular Traffic Check☐

Connect ModeKeep Alive(Auto-Online) ▾

CIMI Send to :

SMS Code

PIN Code

Operator Lock ex:46001

ModeAuto ▾

APNeverywhere

Usereesecure

Password

Auth TypeAuto ▾

Local IP Address

SaveCancel

Table 1. Cellular instruction

Parameter	Instruction
ICMP check	To enable or disable ICMP check rules. Enable the ICMP check and setup a reachable IP address as destination IP. Once ICMP check failed, router will switch SIM card.
CSQ limit	
SMS password	
PIN code	Input SIM card PIN code if SIM is setup PIN by ISP
Cellular mode	
APN	APN provided by local ISP, usually CDMA/EVDO network do not need this parameter
User	SIM card username is provided by ISP
Password	SIM card password is provided by ISP
Auth. type	
Use local IP addr.	

After all settings have been configured, click the “Save” icon.

ICMP Check

Enabling ICMP on the router will automatically check whether the defined IP address is reachable every 60s. If the IP address is unreachable and ICMP check is timed out at the first check, it will make two further attempts at 3s intervals. If the IP address is still unreachable after the third attempt the router will implement the configured fail action.

The Check IP is a public IP or company server IP address.

Figure 5. ICMP

LAN Settings

Step 1. Select “Basic Network > LAN” to enter LAN settings page.

Figure 6. LAN setting GUI

Table 2. LAN settings instruction

Parameter	Instruction
Router IP address	Router IP address, default IP is 192.168.1.1
Subnet mask	Router subnet mask, default mask is 255.255.255.0
DHCP	Dynamic allocation IP service, after enabled it will show the IP address range and lease options
IP address range	IP address range within LAN
Lease	The valid time

After all settings have been configured, click the “Save” icon.

Dynamic DNS Settings

Step 1. Select “Basic Network > DDNS” to enter the DDNS settings page.

Figure 9. Dynamic DNSS settings

Table 3. DDNS settings instruction

Parameter	Instruction
IP address	Use default IP 0.0.0.0. For customized protocol, please contact Siretta representative.
Auto refresh time	Set the interval refresh of the DDNS client to 240s or above
Service provider	Select the DDNS service provider listed

Routing Settings

Step 1. Select “Basic Network > Routing” to enter the Routing settings page.

Figure 10. Routing settings

Table 4. Routing settings instruction

Parameter	Instruction
Destination	Router can reach the destination IP address
Gateway	Next hop IP address which the router will reach
Subnet Mask	Subnet mask for destination IP address
Metric	Metrics are used to determine whether one particular route should be chosen over another
Interface	Interface from router to gateway
Description	Describe routing name

After all settings have been configured, click the “Save” icon.

Advanced Network

Port Forwarding Settings

Step 1. Select “Advanced Network > Port Forwarding” to enter the port forwarding settings. You can modify the router name, host name and domain name according to the application requirement.

Figure 14. Port forwarding settings

PortForwarding

On	Proto	Src Address	Ext Ports	Int Port	Int Address	Description
	UDP		1000,2000		192.168.1.2	ex: 1000 and 2000
	Both		1000-2000,3000		192.168.1.2	ex: 1000 to 2000, and 3000
	Both	1.1.1.0/24	1000-2000		192.168.1.2	ex: 1000 to 2000, restricted
	TCP		1000	2000	192.168.1.2	ex: different internal port

☒ TCP

- **Src Address** (optional) - Forward only if from this address. ex: "1.2.3.4", "1.2.3.4 - 2.3.4.5", "1.2.3.0/24", "me.example.com".
- **Ext Ports** - The ports to be forwarded, as seen from the WAN. ex: "2345", "200,300", "200-300,400".
- **Int Port** (optional) - .The destination port inside the LAN. If blank, the destination port is the same as *Ext Ports*. Only one port per entry is supported when forwarding to a different internal port..
- **Int Address** -The destination address inside the LAN.

Table 7. Port forwarding settings instruction

Parameter	Instruction
Protocol	Support UDP, TCP, both UDP and TCP
Src. Addressclient	Source IP address. Forward only if from this address.
Ext. Ports	External ports. The ports to be forwarded, as seen from the WAN.
Int. Port	Internal port. Destination port inside the LAN. If blank, the destination port is the same as Ext Ports. Only one port per entry is supported when forwarding to a different internal port.
Int. Address	Internal Address. Destination address inside the LAN.
Description	Remark the rule

After all settings have been configured, click the “Save” icon.

DMZ Settings

Step 1. Select “Advanced Network > DMZ” to enter the DMZ settings.

Figure 15. DMZ settings

Status

Basic Network

Advanced Network

Port Forwarding

Port Redirecting

DMZ

Triggered

UPnP/NAT-PMP

Bandwidth Limiter

VRRP

Static DHCP

Firewall

VPN Tunnel

Administration

Debugging

Logout

Router

DMZ

Enable DMZ

☐

Internet Address

192.168.1.0

Source Address Restriction

(optional; ex: "1.1.1.1", "1.1.1.0/24", "1.1.1.1 - 2.2.2.2" or "me.example.com")

Leave Remote Access

☒ (Redirect remote access ports for SSH and HTTP(s) to router)

Save

Cancel

Table 8. DMZ settings instruction

Parameter	Instruction
Destination Address	Destination address inside the LAN
Source Address Restriction	If there is no IP address here, it will allow access to all IP address. If an IP address is defined, access will be allowed to this IP address only.
Leave Remote Access	Leave remote access

After all settings have been configured, click the “Save” icon.

Triggered Settings

Step 1. Select “Advanced Network > Triggered” to enter the triggered settings.

Figure 16. Triggered settings

Status

Basic Network

Advanced Network

Port Forwarding

Port Redirecting

DMZ

Triggered

UPnP/NAT-PMP

Bandwidth Limiter

VRRP

Static DHCP

Firewall

VPN Tunnel

Administration

Debugging

Logout

Router

Triggered Port Forwarding

On	Protocol	Trigger Ports	Forwarded Ports	Description
<input checked="" type="checkbox"/>	TCP	3000-4000	5000-6000	ex: open 5000-6000 if 3000-4000

Add

- (200-300).
- These ports are automatically closed after a few minutes of inactivity.

Save

Cancel

Table 9. Triggered settings instruction

Parameter	Instruction
Protocol	Supports UDP, TCP, both UDP and TCP
Triggered Ports	Trigger ports are the initial LAN to WAN “trigger”
Transferred Ports	Transferred ports are the WAN to LAN ports that are opened if the “trigger” is activated
Note	Port triggering opens an incoming port when your computer is using a specified outgoing port for specific traffic

After all settings have been configured, click the “Save” icon.

Firewall Settings

Step 1. Select “Advanced Network > Firewall” to enter the firewall settings.

Figure 17. Firewall settings

linkCONNECT Settings

Step 1. Select “Advanced Network > linkCONNECT” to enter the linkCONNECT settings.

Figure 18. linkCONNECT settings

Table 10. linkCONNECT settings instruction

Parameter	Instruction
Serial to TC/IP mode	Disable, Server and Client mode
Server IP/Port	IP address and domain name for Server IP
Socket Type	TCP/UDP protocol
Socket Timeout	Setting time to transmit data to serial port
Serial Timeout	Serial timeout is the waiting time for transmitting a data packet. The default setting is 500ms.
Packet payload	Packet payload is the maximum transmission length for serial port data packet. The default setting is 1024bytes.
Heart-beat Content	Send heart beat to the defined server to keep router online. It is convenient to monitor the router from the server.
Heart beat Interval	Heart beat interval time
Baud Rate	112100 as default
Parity Bit	None as default
Data Bit	8bit as default
Stop Bit	1bit as default

After all settings have been configured, click the “Save” icon.

UPnP/NAT-PMP Settings

Step 1. Select “Advanced Network > Upnp/NAT-PMP” to enter the Upnp/NAT-PMP settings.

Figure 19. Upnp/NAT-PMP settings

After all settings have been configured, click the “Save” icon.

NOTE – linkCONNECT and GPS are not available simultaneously on QUARTZ-COMPACT

Static DHCP Settings

Step 1. Select “Advanced Network > Static DHCP” to enter the static DHCP settings.

Figure 20. Static DHCP settings

After all settings have been configured, click the “Save” icon.

VPN Tunnel

GRE Settings

Step 1. Select “VPN Tunnel > GRE” to enter the GRE settings.

Figure 21. GRE settings

Table 11. GRE settings instruction

Parameter	Instruction
Remote IP Address	GRE peer IP address. Usually a public IP address.
Local IP Address	Local IP address for LAN
Tunnel Local IP Address	GRE Tunnel local IP address which is a virtual IP address
Remote LAN IP Address	GRE Tunnel remote IP address which is a virtual IP address
ICMP Check IP Address	Checks the IP address is reachable. If ICMP check is failed, GRE will be established again.

After all settings have been configured, click the “Save” icon.

VPN Client Settings

Step 1. Select “VPN Tunnel > VPN Client” to enter the VPN client settings.

Figure 20. VPN client settings

PPTP/L2TP Client

Router

Enable VPN ☐

VPN Mode PPTP Client

Server Address

Username:

Password:

Encryption Auto

Stateless MPPE connection ☐

Accept DNS configuration Disabled

Redirect Internet traffic ☐

Remote subnet / netmask 10.0.0.0 / 255.255.255.0 -> As Firewall Rule ☒

Create NAT on tunnel ☐

MTU Default 1450

MRU Default 1450

Local IP Address

Hostname: Router

Custom Configuration

Save Cancel

Table 12. VPN client settings instruction

Parameter	Instruction
VPN Mode	VPN Mode for PPTP and L2TP
Server Address	VPN Server IP address
User name	As the configuration requested
Password	As the configuration requested
Encryption	As the configuration requested
Stateless MPPE	As the configuration requested
Accept DNS	As the configuration requested
Remote Subnet	As the configuration requested
Create NAT on Tunnel	As the configuration requested

Administration

Identification Settings

Step 1. Select “Administrator > Identification” to enter the router identification settings. Here you can modify the router name, host name and domain name according to your requirements.

Figure 21. Router identification settings

The screenshot shows the 'Router Identification' configuration page. On the left is a blue sidebar menu with options: Status, Basic Network, WLAN, Advanced Network, Firewall, VPN Tunnel, Administration, Identification (highlighted), Time, Admin Access, Scheduled Reboot, SNMP, Storage Settings, M2M Settings, DI/DO Setting, Configuration, Logging, Upgrade, Reboot..., Debugging, and Logout. The main content area is titled 'Router Identification' and contains three input fields: 'Router Name' with the value 'QUARTZ-COMPACT', 'Hostname' with the value 'QUARTZ-COMPACT', and 'Domain Name' which is empty. At the bottom right of the main area are 'Save' and 'Cancel' buttons.

Table 13. Router identification settings instruction

Parameter	Instruction
Router Name	Default is router. Can be customised, maximum 32 characters.
Host Name	Default is router. Can be customised, maximum 32 characters.
Domain Name	Default is empty. Can be customised, maximum 32 characters. This is the domain name for the WAN, it will only need to be configured in W AN applications.

After all settings have been configured, click the “Save” icon.

Time Settings

Step 1. Select “Administrator > Time” to enter the time settings.

Figure 22. Time settings

The screenshot shows the 'Time' configuration page. The left sidebar menu is the same as in Figure 21, but 'Time' is now highlighted. The main content area is titled 'Time' and shows the following settings: 'Router Time' is 'Thu, 13 Dec 2018 15:14:26 +0000' with a 'Clock Sync.' button; 'Time Zone' is a dropdown menu set to 'UTC+00:00 England'; 'Auto Daylight Savings Time' has a checked checkbox; 'Auto Update Time' is a dropdown menu set to 'Every 4 Hours'; 'Trigger Connect On Demand' has an unchecked checkbox; and 'NTP Time Server' is a dropdown menu set to 'Default' with a list of IP addresses below it: '0.pool.ntp.org, 1.pool.ntp.org, 2.pool.ntp.org'. At the bottom right are 'Save' and 'Cancel' buttons.

After all settings have been configured, click the “Save” icon.

NOTE – If the device is online but time update fails, try another NTP time server.

Admin Access Settings

Step 1. Select “Administrator > Admin Access” to enter the admin settings. Here, you can configure the basic web parameters enabling it to be more convenient for your usage.

NOTE – The password is the router system account password.

Figure 23. Admin settings

Status
Basic Network
Advanced Network
Firewall
VPN Tunnel
Administration
Identification
Time
Admin Access
Scheduled Reboot
SNMP
M2M Settings
Configuration
Logging
Upgrade
Reboot...
Debugging
Logout

WebAccess

Local Access: HTTP
HTTP Access Port: 80
Remote Access: HTTP
Access Port: 8080
Allow Wireless Access: ☒

Open Menus

Status	<input type="checkbox"/>
Basic Network	<input type="checkbox"/>
Firewall	<input type="checkbox"/>
VPN Tunnel	<input type="checkbox"/>
Advanced Network	<input type="checkbox"/>
Administration	<input type="checkbox"/>
Debugging	<input type="checkbox"/>

Password

Password:
(re-enter to confirm)

Language

System Language: English

Save Cancel

After all settings have been configured, click the “Save” icon.

Schedule Reboot Settings

Step 1. Select “Administrator > Scheduled Reboot” to enter the reboot settings.

Figure 24. Reboot settings

Status
Basic Network
Advanced Network
Firewall
VPN Tunnel
Administration
Identification
Time
Admin Access
Scheduled Reboot
SNMP
M2M Settings
Configuration
Logging
Upgrade
Reboot...
Debugging
Logout

Scheduler Reboot

Enabled: ☐
Time: 0:00
Days: ☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat ☒ Everyday

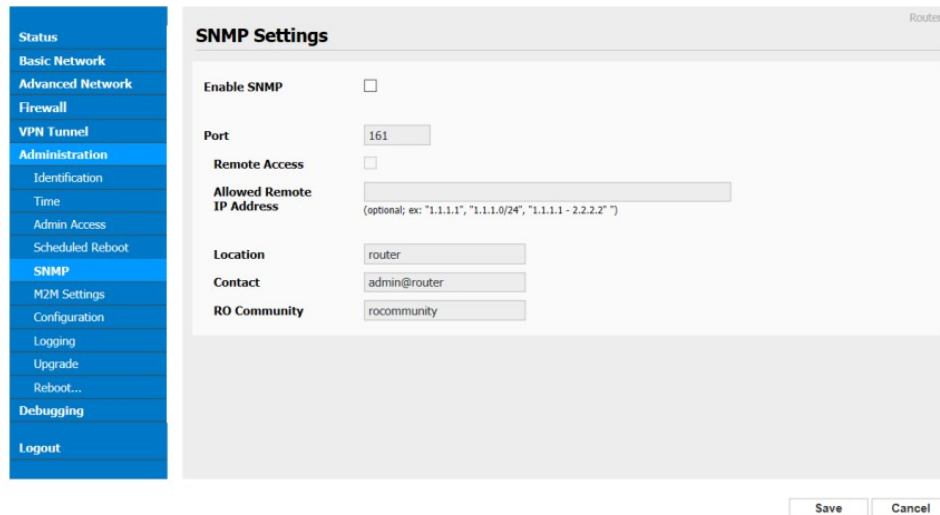
Save Cancel

After all settings have been configured, click the “Save” icon.

SNMP Settings

Step 1. Select “Administrator > SNMP” to enter the SNMP settings.

Figure 25. SNMP settings



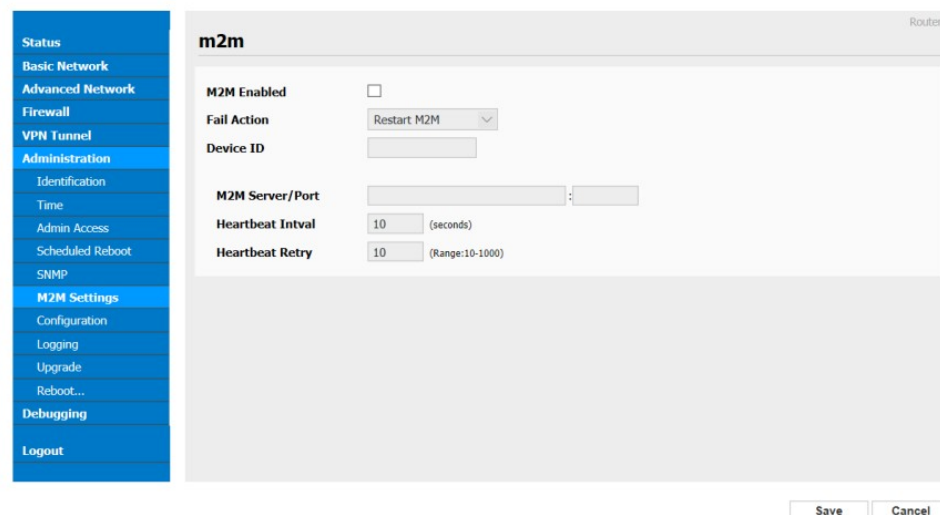
The image shows the 'SNMP Settings' configuration page. On the left is a blue sidebar menu with options: Status, Basic Network, Advanced Network, Firewall, VPN Tunnel, Administration (highlighted), Identification, Time, Admin Access, Scheduled Reboot, SNMP, M2M Settings, Configuration, Logging, Upgrade, Reboot..., Debugging, and Logout. The main panel is titled 'SNMP Settings' and contains the following fields: 'Enable SNMP' (checkbox, unchecked), 'Port' (text box with '161'), 'Remote Access' (checkbox, unchecked), 'Allowed Remote IP Address' (text box with a placeholder '(optional; ex: "1.1.1.1", "1.1.1.0/24", "1.1.1.1 - 2.2.2.2")'), 'Location' (text box with 'router'), 'Contact' (text box with 'admin@router'), and 'RO Community' (text box with 'rocommunity'). At the bottom right are 'Save' and 'Cancel' buttons.

After all settings have been configured, click the “Save” icon.

M2M Access Settings

Step 1. Select “Administrator > M2M Settings” to enter the SNMP settings.

Figure 26. M2M access settings



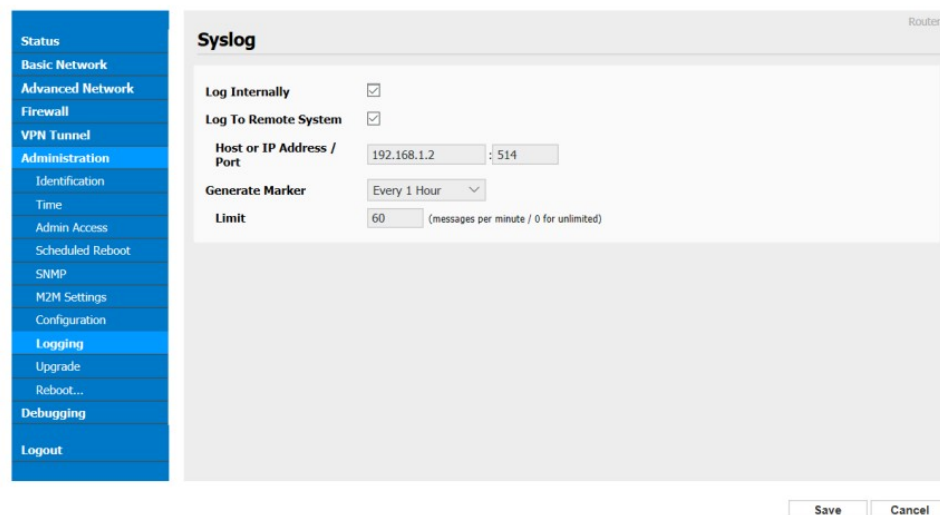
The image shows the 'm2m' configuration page. The sidebar menu is the same as in Figure 25, but 'M2M Settings' is highlighted. The main panel is titled 'm2m' and contains the following fields: 'M2M Enabled' (checkbox, unchecked), 'Fail Action' (dropdown menu with 'Restart M2M' selected), 'Device ID' (text box), 'M2M Server/Port' (text box with a placeholder ':'), 'Heartbeat Intval' (text box with '10' and '(seconds)' next to it), and 'Heartbeat Retry' (text box with '10' and '(Range:10-1000)' next to it). At the bottom right are 'Save' and 'Cancel' buttons.

After all settings have been configured, click the “Save” icon.

System Log Settings

Step 1. Select “Administrator > Logging” to enter the logging settings. Here you can select the save path for any backed up configurations. (Local or remote server)

Figure 31. Log settings



The image shows the 'Syslog' configuration page. The sidebar menu is the same as in Figure 25, but 'Logging' is highlighted. The main panel is titled 'Syslog' and contains the following fields: 'Log Internally' (checkbox, checked), 'Log To Remote System' (checkbox, checked), 'Host or IP Address / Port' (text box with '192.168.1.2' and ': 514'), 'Generate Marker' (dropdown menu with 'Every 1 Hour' selected), and 'Limit' (text box with '60' and '(messages per minute / 0 for unlimited)' next to it). At the bottom right are 'Save' and 'Cancel' buttons.

After all settings have been configured, click the “Save” icon.

Upgrade Settings

Step 1. Select “Administrator > Upgrade” to enter the upgrade firmware settings.

NOTE – When upgrading the firmware, do not remove power.

Figure 32. Upgrade firmware settings

Upgrade Firmware Router

Select the file to use:

☒ After flashing, erase all data in NVRAM memory

Current Version: Router-4.2.2.3-161031-152204
Free Memory: 53.19 MB (approx. size that can be buffered completely in RAM)

After all settings have been configured, click the “Save” icon.

System Reboot

Step 1. Select “Administrator > Reboot” to reboot the router. A popup will appear, prompting ‘YES’ or ‘NO’ to continue with the reboot.

Step 2: If you select ‘YES’, the system will reboot. All relevant firmware upgrades will be effective after the reboot.

Debugging

Logs Settings

Step 1. Select “Debugging > Logs” to enter the log settings.

Figure 33. Log settings

Logs Router

[View](#)
[Download Log File](#)

[» Logging Configuration](#)

After all settings have been configured, click the “Save” icon.

Ping Settings

Step 1. Select “Debugging > Ping” to enter the ping settings.

Figure 34. Ping settings

Ping Router

IP Address

Ping Count

Packet Size (bytes)

Seq	Address	RX Bytes	TTL	RTT (ms)	+/- (ms)
-----	---------	----------	-----	----------	----------

After all settings have been configured, click the “Save” icon.

Restore Factory Settings

Via Web Interface

If you want to restore factory settings on your router, this can be done on the web interface by selecting “Administration > Configuration”. Select “Restore Configuration” this will restore your router to it factory settings.

Figure 35. Restore configuration



Via Router

To restore the routers factory settings, press and hold the reset button on the router located near the power connector. Press and hold the reset button for at least 5 seconds, this can be done when the router is either in use or turned on. Reset is successful when the NET light stops blinking. The router will now be restored to factory settings.

Figure 36. Reset button on router

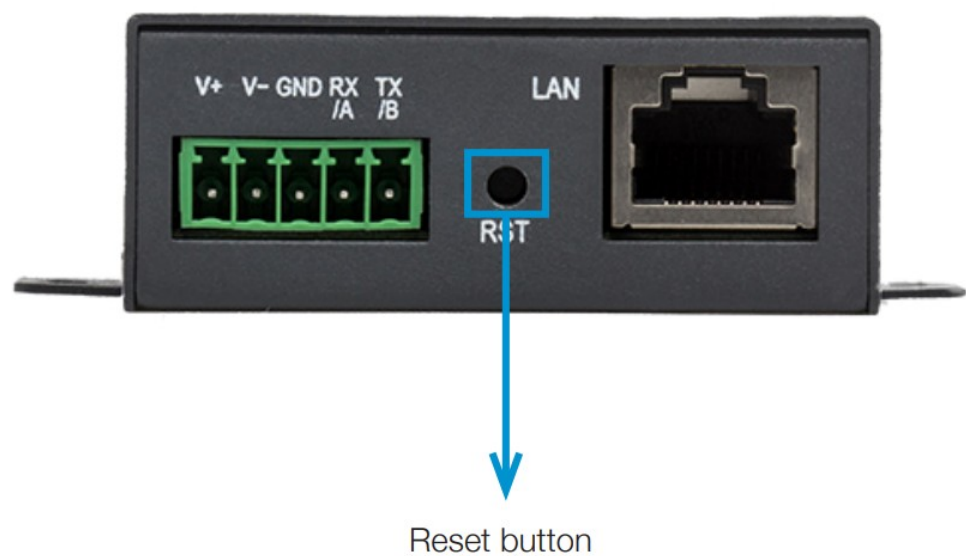


Table 14. Factory settings

Parameter	Default settings
LAN IP	192.168.1.1
LAN Subnet Mask	255.255.255.0
DHCP server	Enable
User Name	admin
Password	Obtain the default password on the silver label on the back of your router.

Appendix (For optional GPS feature only)

Step 1. Select “Advanced Network > GPS” to enter the GPS settings.

Figure 37. GPS settings

Table 15. GPS settings

Parameter	Instruction
Bind Port	Local port for GPS data.
Socket type	GPS data protocol.
Socket Timeout	The timeout for socket connection. If socket is not established, it will reconnect after the timeout time.
Serial Timeout	The time is defined by serial port buffer. After the time, router will send GPS to server.
Packet Payload	The max packet for GPS data.

NOTE – GPS data format: dtu.heartbeat.content,gps_date, gps_time, gps_use, gps_latitude, gps_NS, gps_longitude, gps_EW, gps_speed, gps_degrees, gps_FS, gps_HDOP, gps_MSL
e.g. Router_00001,083238,120313,12,2230.31563,N,11355.02863,E

Disclaimer

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Definitions

Term	Definition
------	------------

3G	3rd Generation Mobile Telecommunications
4G	4th Generation Mobile Telecommunications
APN	Access Point Name
DDNS	Dynamic Domain Name System
DHCP	Dynamic Host Configuration Protocol
DI	Direct Input
DMZ	Demilitarized Zone
DNS	Domain Name System
DO	Direct Output
GND	Ground
GPS	Global Positioning System
GUI	Graphical User Interface
I/O	Input/Output
ICMP	Internet Control Message Protocol
IP	Internet Protocol
ISP	Internet Service Provider
LAN	Local Area Network
LTE	Long-Term Evolution
M2M	Machine to Machine
MPPE	Microsoft Point-to-Point Encryption
NAT	Network Address Translation
NTP	Network Time Protocol
PMP	Port Mapping Protocol
SIM	Subscriber Identity Module
SMS	Short Message Service
SNMP	Simple Network Management Protocol
TCP	Transmission Control Protocol
UDP	User Datagram Protocol
UMTS	Universal Mobile Telecommunications System
UPnP	Universal Plug and Play
VPN	Virtual Private Network
WAN	Wide Area Network
WLAN	Wireless Local Area Network



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Rev 1.3 – April 2024

Documents / Resources



[Siretta Quartz-Compact Series Single Port Compact LTE Router](#) [pdf] Instruction Manual
3G 4G Single LAN Industrial Router Range, Quartz-Compact Series Single Port Compact LTE Router, Quartz-Compact Series, Single Port Compact LTE Router, Port Compact LTE Router, Compact LTE Router, LTE Router

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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