

CCG-1500 Series User Manual

Version 1.0, October 2023

www.moxa.com/products

MOXA®

© 2023 Moxa Inc. All rights reserved.

CCG-1500 Series User Manual

The software described in this manual is furnished under a license agreement and may be used only in accordance with the terms of that agreement.

Copyright Notice

© 2023 Moxa Inc. All rights reserved.

Trademarks

The MOXA logo is a registered trademark of Moxa Inc.
All other trademarks or registered marks in this manual belong to their respective manufacturers.

Disclaimer

- Information in this document is subject to change without notice and does not represent a commitment on the part of Moxa.
- Moxa provides this document as is, without warranty of any kind, either expressed or implied, including, but not limited to, its particular purpose. Moxa reserves the right to make improvements and/or changes to this manual, or to the products and/or the programs described in this manual, at any time.
- Information provided in this manual is intended to be accurate and reliable. However, Moxa assumes no responsibility for its use, or for any infringements on the rights of third parties that may result from its use.
- This product might include unintentional technical or typographical errors. Changes are periodically made to the information herein to correct such errors, and these changes are incorporated into new editions of the publication.

Technical Support Contact Information

www.moxa.com/support

Table of Contents

1. Introduction	4
Overview	4
2. Getting Started	5
Connecting the Power	5
Connecting the Serial Devices	5
Connecting to a Network	5
Accessing the Web Interface	6
3. Web Interface.....	7
Overview	7
System Information.....	7
Network Overview	8
Network Settings	10
Cellular	10
IP Passthrough Settings	18
NAT Settings.....	18
Firewall Settings.....	21
LAN Settings.....	23
Protocol.....	25
Modbus	25
System Management.....	26
Maintenance	26
General Operation	29
Administration Management.....	33
Change Password	33
Session Setting	34
Dark Theme.....	34
Sign Out	34

1. Introduction

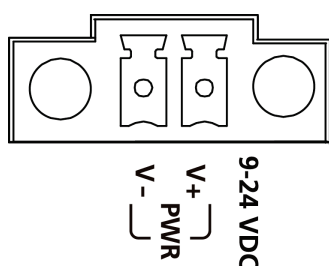
Overview

The CCG-1500 Series is designed for media and protocol conversion, including 5G-to-Ethernet and 5G-to-serial and is suitable for both public and private networks. The CCG-1500 Series acts as a protocol converter for Modbus TCP/RTU communications and supports 5G-based wireless communications. Equipped with a Cortex-A7 processor built for media conversion, the CCG-1500 Series is suitable for a wide range of industrial applications. The wide-temperature design also makes the CCG-1500 Series ideal for applications in harsh environments.

2. Getting Started

Connecting the Power

The CCG Series device is powered by connecting a power source to the terminal block. Refer to the power terminal block pin assignments below:



1. Loosen or remove the screws on the terminal block.
2. Turn off the power source and then connect a 9–24 VDC power line to the terminal block.
3. Tighten the connections, using the screws on the terminal block.
4. Turn on the power source.

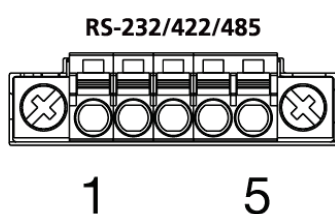


NOTE

The unit does not have an on/off switch. The device will automatically turn on when it receives power. When the system is ready, the SYS LED will light up green.

Connecting the Serial Devices

The CCG-1500 Series supports connections to Modbus serial devices through the DB9 male serial port. The serial port can be configured for the RS-232, RS-422, or RS-485 mode using serial software. Refer to the serial port pin assignment below:



Pin	Definition
1	RS-232TXD/RS-422T+
2	RS-232RXD/RS-422T-
3	RS-232RTS/RS-422R+/RS-485D+
4	RS-232CTS/RS-422R-/RS-485D-
5	GND

Connecting to a Network

Connect one end of an Ethernet cable to one of the CCG-1500 Series device's 10/100/1000 Mbps Ethernet ports. Connect the other end of the cable to your Ethernet network. If a connection is established, the corresponding LAN LED will turn solid green.

Accessing the Web Interface



NOTE

Make sure the host and the CCG device are on the same subnet. The CCG device's default subnet is **255.255.255.0**.

1. Connect the CCG device's LAN1 or LAN2 port to your network.
2. Open a web browser and enter the CCG device's IP address into the address bar. The default IP address is **https://192.168.225.1:443**.
3. Log in using your user account and password. If this is the first time logging in, use the default login credentials.

Account: **admin**

Password: **moxa**

MOXA

Sign in to
CCG1510

Account

Password

SIGN IN

4. Click **SIGN IN**. When logged in, the System Information screen will appear by default.

MOXA CCG1510 Admin

OVERVIEW

- System Information
- Network Overview

NETWORK SETTINGS

- Cellular
- IP Passthrough Settings
- NAT Settings
- Firewall Settings
- LAN Settings

PROTOCOL

- Modbus

System Info

Firmware Version	V0.9.5_BUILD_2023041308 / RXLG1.20.00.361_OR09
Serial Number	IMOXAI234567
IMEI	359855101786063
IMSI	--
System Time	Jan 06, 1980 00:14:26

GPS

Status GPS In Progress

Latitude 22.990002

Longitude 119.349998

CCG1510

Leaflet | © OpenStreetMap contributors

3. Web Interface

Overview

System Information

The System Information page shows basic details about the device, including the firmware version and serial number. From this screen, you can also check the device's physical location and GPS coordinates.

The screenshot displays the MOXA CCG1510 web interface. The top navigation bar includes the MOXA logo, the device ID 'CCG1510', and an 'Admin' dropdown menu. A left sidebar lists navigation options under 'OVERVIEW' (System Information, Network Overview) and 'NETWORK SETTINGS' (Cellular, IP Passthrough Settings, NAT Settings, Firewall Settings, LAN Settings). Below these are 'PROTOCOL' settings, including Modbus.

The main content area is divided into two panels:

- System Info:** A table listing device details:

Firmware Version	V0.9.5_BUILD_2023041308 / RXLG1.20.00.361_0R09
Serial Number	IMOXAI234567
IMEI	359855101786063
IMSI	466924920033614
System Time	Jun 26, 2023 14:33:54
- GPS:** A map showing the device's location in Taiwan. A blue pin marks the location, with a callout box labeled 'CCG1510'. The map includes a status table:

Status	GPS In Progress
Latitude	25.002506
Longitude	121.550392

Network Overview

This dashboard displays information about the device's cellular status (if a SIM card is inserted), WWAN statistics, WWAN IP configuration, and SIM card status. Refer to the following segments for more details about each section.

Cellular Status

The Cellular Status section displays the current modem status, LTE information, and cellular signal strength. A SIM card must be installed to view this information.

Network Overview
Home > Overview > Network Overview


Cellular Status

Modem Status ^

Operation Mode : online
Radio Access Technology : LTE
Registration : Registered
Operator Name : IqFhL◆◆R
Operator MCC : 466
Operator MNC : 92

LTE Information

Band : Band 7
EARFCN : 3050
PCI : 379
RSRP (DBm) : -82
SNR (DB) : 21
Bandwidth : LTE 20 MHz



Legend: Good (Green), Fair (Yellow), Poor (Red), No signal (Grey)

WWAN Statistics v

WWAN IP Configs - 1 v

SIM Status v

WWAN Statistics

The WWAN Statistics section displays information about the data sent and received through the WAN interface. The WWAN information automatically refreshes every 10 seconds.

WWAN Statistics ^

RX Bytes : 4012
TX Bytes : 750
RX Packets : 14
TX Packets : 14
RX Drop Packets : 0
TX Drop Packets : 0

WWAN IP Configs-1

The WWAN IP Config section displays WWAN IP configuration details, including the IPv4/v6 address and IPv4/v6 DNS server name.

WWAN IP Configs - 1 ^

Profile Name	: auto-1
APN	: --
IPv4 Address	: 10.161.50.205
IPv4 DNS 1	: 168.95.1.1
IPv4 DNS 2	: 168.95.192.1
IPv6 Address	: 2001:b400:e20d:71b3:fc9d:790f:2ff2:924
IPv6 DNS 1	: 2001:b000:168::1
IPv6 DNS 2	: 2001:b000:168::2

SIM Status

The SIM Status section displays information about the installed SIM card including the PIN code, ICCID, and IMSI.

SIM Status ^

Card State	: PRESENT
Status	: READY
PIN Enable	: false
PIN Retries	: 3
PUK Retries	: 10
ICCID	: 89886920049200336147
IMSI	: 466924920033614

Network Settings

Cellular

The **Cellular** page is used to configure cellular connection health, profiles, bands, and SIM settings.

Go to **Network Settings > Cellular**.

Cellular

Home > Network Settings > Cellular

Enable Airplane Mode

Keep Alive Profiles Band SIM Settings

Enable Packet Keep Alive

Detection

Check Interval (sec)

60

Rx Packet Check

Ping Check

Ping Target Host

Ping Retry Count

3

Ping Timeout (sec)

5

DNS Check

DNS Target Domain Name (ex: google.com)

DNS Retry Count

3

DNS Query Timeout (sec)

20

Recovery

Profile Retry Count

3

Action Waiting Timeout (sec)

300

Profile Retry with Airplane Mode

SAVE

Enable Airplane Mode

Setting	Description	Factory Default
Toggle	Enable or disable Airplane Mode. If enabled, cellular functionality will be disabled.	Off

Keep Alive

The CCG-1500 Series device supports Keep Alive checks to monitor the health of the cellular connection and cellular connection recovery functionality.

Go to **Network Settings > Cellular > Keep Alive.**

Cellular
Home > Network Settings > Cellular

Enable Airplane Mode

Keep Alive Profiles Band SIM Settings

Enable Packet Keep Alive

Detection
Check Interval (sec)
60

Rx Packet Check

Ping Check
Ping Target Host
.....
Ping Retry Count
3
.....
Ping Timeout (sec)
5
.....

DNS Check
DNS Target Domain Name (ex: google.com)
.....
DNS Retry Count
3
.....
DNS Query Timeout (sec)
20
.....

Recovery
Profile Retry Count
3
.....
Action Waiting Timeout (sec)
300
.....

Profile Retry with Airplane Mode

SAVE

Enable Packet Keep Alive

Setting	Description	Factory Default
Toggle	Enable or disable Keep Alive packets to monitor the health of the cellular connection.	On

Detection

Setting	Description	Factory Default
1 to 3600	Specify the interval (in seconds) at which Keep Alive packets are sent.	60

Rx Packet Check

Setting	Description	Factory Default
Checkbox	Enable or disable Rx packets. If enabled, the system will check for incoming Keep Alive packets as a means to monitor connection health. This function is useful for scenarios where the network does not permit devices to send out ping packets.	Unchecked

Ping Check

Setting	Description	Factory Default
Checkbox	Enable or disable ping checks. If enabled, the system will ping the specified host to determine the health of the connection.	Unchecked

Ping Target Host

Setting	Description	Factory Default
Domain Name or IP Address	Specify the domain name or IP address of the host to ping.	N/A

Ping Retry Count

Setting	Description	Factory Default
1 to 10	Specify the number of times the system will attempt to ping an unresponsive host.	N/A

Ping Timeout (sec)

Setting	Description	Factory Default
1 to 300	Specify the duration (in seconds) before the host is considered unresponsive.	N/A

DNS Check

Setting	Description	Factory Default
Checkbox	Enable or disable DNS checks. If enabled, the system will ping the specified DNS server to determine the health of the connection.	Unchecked

DNS Target

Setting	Description	Factory Default
Domain Name	Specify the domain name of the DNS server.	N/A

DNS Retry Count

Setting	Description	Factory Default
1 to 5	Specify the number of times the system will attempt to ping an unresponsive DNS server.	N/A

DNS Query Timeout (sec)

Setting	Description	Factory Default
1 to 300	Specify the duration (in seconds) before the DNS server is considered unresponsive.	N/A

Profile Retry Count

Setting	Description	Factory Default
1 to 10	Specify the number of times the system will attempt to apply the assigned cellular profile.	3

Action Waiting Timeout (sec)

Setting	Description	Factory Default
0 to 3600	Specify the duration (in seconds) before the system considers the attempt failed.	300

Profile Retry with Airplane Mode

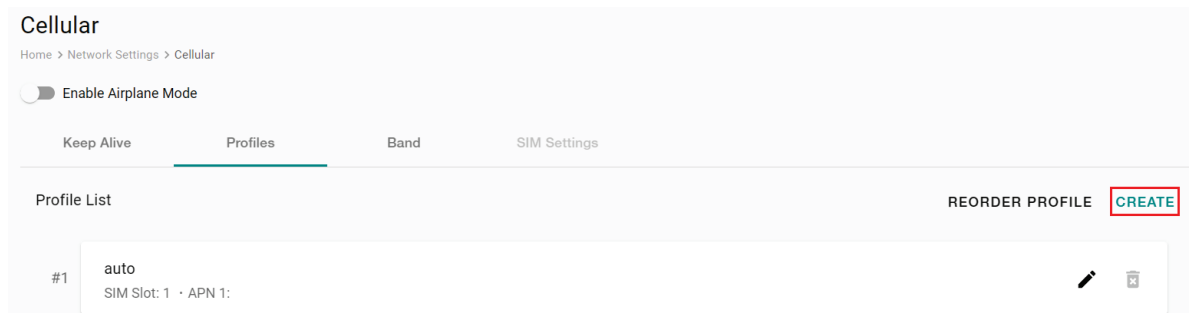
Setting	Description	Factory Default
Checkbox	Enable or disable profile retries if Airplane Mode is enabled. For more information about cellular profiles, refer to the Profiles section.	Checked

When finished, click **SAVE**.

Profiles

From the **Profiles** screen, you can create multiple customized cellular profiles with specific configuration settings. The CCG device will always deploy the cellular settings of the profile with the highest priority.

Go to **Network Settings > Cellular > Profiles**.



To create a new profile, click **CREATE**.

Create new profile

Profile Name

SIM Slot

1

SIM PIN - optional

Multi-APN settings - 1

APN

IP Type

ipv4

Authentication Type

none

+ Add APN Setting

CANCEL SAVE

Profile Name

Setting	Description	Factory Default
Name	Enter a name for the profile	N/A

SIM Slot

Setting	Description	Factory Default
1 or 2	Select the SIM slot of the profile.	1

SIM PIN - optional

Setting	Description	Factory Default
PIN number	If the inserted SIM card has a PIN code configured, specify the PIN code.	N/A

APN

Setting	Description	Factory Default
APN	Specify the Access Point Name (APN), if available.	N/A

IP Type

Setting	Description	Factory Default
IPv4, IPv6, IPv4v6	Select the IP type.	IPv4

Authentication Type

Setting	Description	Factory Default
None, PAP, CHAP, PAP-CHAP	Select the authentication mechanism.	None

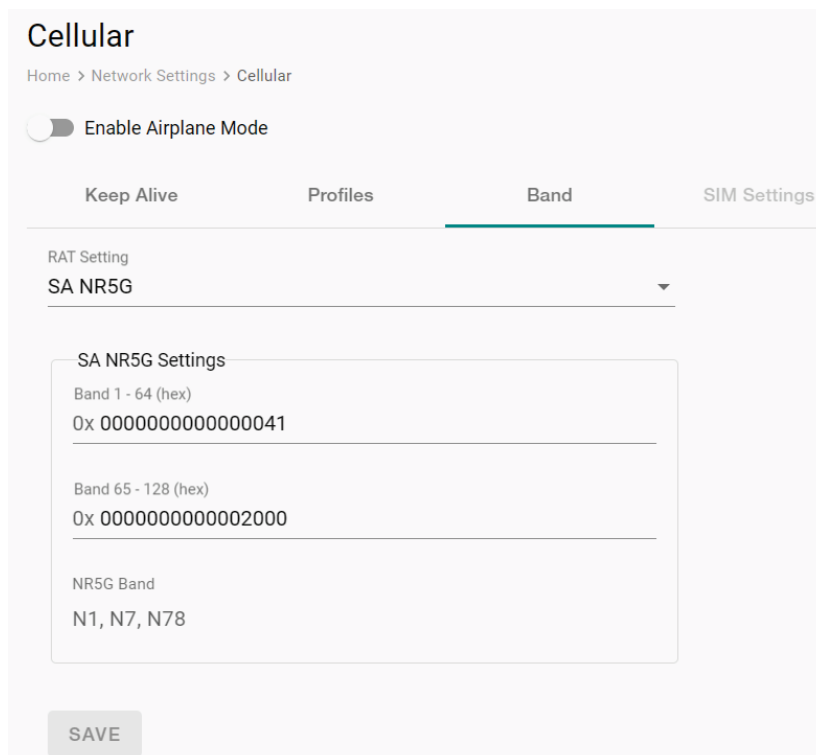
Click **+Add APN Setting** to configure an additional APN.

When finished, click **SAVE**.

Band

From the **Band** screen, you can configure specific bands for different radio technologies.

Go to **Network Settings > Cellular > Band**.



RAT Setting

Setting	Description	Factory Default
LTE Only, NSA NR5G, SA NR5G	Select the radio access technology (RAT) from the list. Available settings depend on the selected type. Refer to the following sections for more information: LTE Only NSA NR5G SA NR5G	SA NR5G

LTE Only

RAT Setting
LTE Only

LTE Settings

Band 1 - 64 (hex)
0x 00000020080000C5

LTE Band
B1, B3, B7, B8, B28, B38

SAVE

Band 1-64 (hex)

Setting	Description	Factory Default
Hex Number	Specify the cellular band number in hex format.	N/A

LTE Band

Setting	Description	Factory Default
Read Only	This shows the supported LTE bands.	N/A

When finished, click **SAVE**.

NSA NR5G

NSA NR5G Settings

Band 1 - 64 (hex)
0x 0000010008000005

Band 65 - 128 (hex)
0x 00000000000002000

NR5G Band
N1, N3, N28, N41, N78

SAVE

Band 1-64 (hex)

Setting	Description	Factory Default
Hex Number	Specify the cellular band number in hex format.	N/A

Band 65-128 (hex)

Setting	Description	Factory Default
Hex Number	Specify the cellular band number in hex format.	N/A

NR5G Band

Setting	Description	Factory Default
Read Only	This shows the supported NSA NR5G bands.	N/A

When finished, click **SAVE**.

SA NR5G

Band 1-64 (hex)

Setting	Description	Factory Default
Hex Number	Specify the cellular band number in hex format.	N/A

Band 65-128 (hex)

Setting	Description	Factory Default
Hex Number	Specify the cellular band number in hex format.	N/A

NR5G Band

Setting	Description	Factory Default
Read Only	This shows the supported SA NR5G bands.	N/A

When finished, click **SAVE**.

SIM Settings

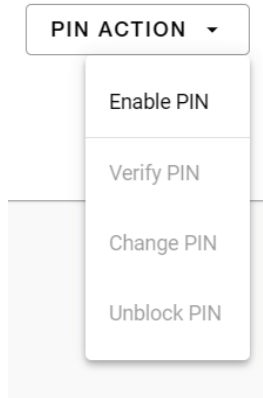
From the SIM Settings screen, you can select the active SIM slot and perform basic SIM card actions.

Go to **Network Settings > Cellular > SIM Settings**.

Current SIM Slot

Setting	Description	Factory Default
1 or 2	Select the active slot. If changed, the cellular connection will be temporarily uninterrupted.	1

From the **PIN ACTION** menu, you can perform the following actions:



PIN ACTION

Action	Description
Enable PIN	Enable or disable SIM card PIN code verification. If enabled, users will be required to enter the PIN code to unlock and use the SIM card. Every time the device is rebooted, users will be required to re-enter the PIN code using the Verify PIN function. If disabled, the SIM card will be unlocked without the need to enter a PIN code.
Verify PIN	If PIN code verification is enabled, enter the PIN code to verify and unlock the SIM card.
Change PIN	Change the current PIN code.
Unblock PIN	If the PIN code of the SIM card was entered incorrectly multiple times in a row, the SIM card will be blocked. Use the unblock PIN function to unblock the SIM card.

IP Passthrough Settings

The **IP Passthrough Settings** page is used to enable or disable the IP Passthrough function.

Go to **Network Settings > IP Passthrough Settings**.



WARNING

Enabling IP Passthrough will disable all NAT and firewall settings.

IP Passthrough Settings

Home > Network Settings > IP Passthrough Settings

Info: Enable IP Passthrough will disable NAT and firewall settings.

Enable IP Passthrough

Client Device Mac Address

SAVE

Enable IP Passthrough

Setting	Description	Factory Default
Checkbox	Enable or disable the IP Passthrough function.	Disabled

When finished, click **SAVE**.

NAT Settings

The **NAT Settings** page is used to set the NAT mode and configure relevant NAT settings. Configurable settings depend on which NAT mode is selected.

Go to **Networking Settings > NAT Settings**.

NAT Settings

Home > Network Settings > NAT Settings

Select NAT Type
Symmetric

IPSEC VPN Pass-Through

PPTP VPN Pass-Through

L2TP VPN Pass-Through

Webserver WWAN Access

DMZ IP

UPDATE

Select NAT Type

Setting	Description	Factory Default
Symmetric	Set the NAT mode to Symmetric.	Symmetric
Port Restricted	Set the NAT mode to Port Restricted.	
Full Cone	Set the NAT mode to Full Cone.	
Access Restricted	Set the NAT mode to Access Restricted.	

IPSEC VPN Pass-Through

Setting	Description	Factory Default
Checkbox	Enable or disable IPsec VPN passthrough functionality.	Enabled

PPTP VPN Pass-Through

Setting	Description	Factory Default
Checkbox	Enable or disable PPTP VPN passthrough functionality.	Enabled

L2TP VPN Pass-Through

Setting	Description	Factory Default
Checkbox	Enable or disable L2TP VPN passthrough functionality.	Enabled

Webserver WWAN Access

Setting	Description	Factory Default
Checkbox	Enable or disable Webserver WWAN Access functionality. If enabled, the web interface can be accessed via the WWAN interface.	Unchecked

DMZ IP

Setting	Description	Factory Default
IP Address	Specify the NAT DMZ IP address.	N/A

When finished, click **UPDATE**.

Port Forwarding

The **Port Forwarding** page is used to enable or disable the port forwarding function and to manage port forwarding rules.

Go to **Networking Settings > Port Forwarding**.

Port Forwarding

Enable Port Forwarding

[+ ADD ENTRY](#)

No.	Private IP	Private Port	Global Port	Protocol
No entry yet. Click + ADD ENTRY to create port forwarding entry.				

Enable Port Forwarding

Setting	Description	Factory Default
Toggle	Use the toggle button to enable or disable the port forwarding function.	Enabled

Adding a Port Forwarding Entry

From the Port Forwarding screen, click **+ADD ENTRY** to create a Port Forwarding entry.

Add Port Forwarding Entry

Protocol
TCP

Private IP
.

Private Port
1

Global Port
1

CANCEL [SAVE](#)

Protocol

Setting	Description	Factory Default
ICMP, TCP, UDP, TCP & UDP	Select the port forwarding protocol.	TCP

Private IP

Setting	Description	Factory Default
IP Address	Specify the private IP address.	Disabled

Private Port

Setting	Description	Factory Default
1 to 65535	Specify the private port number.	None

Global Port

Setting	Description	Factory Default
1 to 65535	Specify the global port number.	None

When finished, click **SAVE**.

Firewall Settings

The **Firewall Settings** page is used to enable or disable the IPv4 firewall function and to manage IPv4 and IPv6 firewall rules.

Go to **Networking Settings > Firewall Settings**.

Enable Firewall

Setting	Description	Factory Default
Toggle	Use the toggle button to enable or disable the firewall function.	Disabled

Adding an IPv4 Firewall Entry

In the IPv4 Firewall Entries section on the Firewall Settings screen, click **+ ADD ENTRY** to create a new IPv4 firewall entry.

Add Firewall Entry

Protocol

Setting	Description	Factory Default
None, ICMP, TCP, UDP, TCP & UDP	Select the protocol for the firewall rule.	TCP

Source Address

Setting	Description	Factory Default
IP Address	Specify the source IP address.	N/A

Source Subnet Mask

Setting	Description	Factory Default
Subnet Mask	Specify the source subnet mask.	N/A

When finished, click **SAVE**.

Adding an IPv6 Firewall Entry

In the IPv6 Firewall Entries section on the Firewall Settings screen, click **+ ADD ENTRY** to create a new IPv6 firewall entry.

IPv6 Firewall Entries ^

+ ADD ENTRY

No.	Protocol	Address	Prefix Length
No entry yet. Click + ADD ENTRY to create firewall entry.			

Add Firewall Entry

Protocol
NONE ▼

Address

Prefix Length
0

CANCEL **SAVE**

Protocol

Setting	Description	Factory Default
None, ICMP6, TCP, UDP, TCP & UDP	Select the protocol for the firewall rule.	TCP

Address

Setting	Description	Factory Default
IPv6 Address	Specify the IPv6 address.	N/A

Prefix Length

Setting	Description	Factory Default
IPv6 Prefix Length	Specify the prefix length for the IPv6 address.	0

When finished, click **SAVE**.

LAN Settings

IP Address

The **IP Address** page is used to configure the device's access IP address and specify the LAN DHCP IP pool range.

Go to **Network Settings > LAN Settings > IP Address**.

IP Address

Home > Network Settings > LAN Settings > IP Address

LAN IP

192 . 168 . 225 . 1

LAN Subnet Mask

255 . 255 . 255 . 0

Enable LAN DHCP

LAN DHCP Start IP

192 . 168 . 225 . 20

LAN DHCP End IP

192 . 168 . 225 . 60

LAN DHCP Lease Time

43200

UPDATE

LAN IP

Setting	Description	Factory Default
IP Address	Specify the device's LAN IP address.	192.168.225.1:443

LAN Subnet Mask

Setting	Description	Factory Default
Subnet Mask	Specify the device's LAN subnet mask.	255.255.255.0

Enable LAN DHCP

Setting	Description	Factory Default
Enable or Disable	Enable or disable the LAN DHCP server.	255.255.255.0

LAN DHCP Start IP

Setting	Description	Factory Default
IP Address	Specify the starting IP address of the LAN DHCP IP address pool.	192.168.225.20

LAN DHCP End IP

Setting	Description	Factory Default
IP Address	Specify the ending IP address of the LAN DHCP IP address pool.	192.168.225.60

LAN DHCP Lease Time

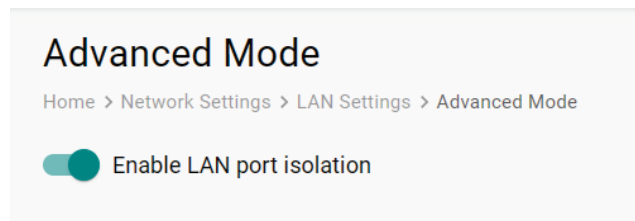
Setting	Description	Factory Default
120 to 86400	Specify the IP address lease time (in seconds).	43200

When finished, click **UPDATE**.

Advanced Mode

The **Advanced Mode** page is used to manage the device's advanced functions.

Go to **Networking Settings > LAN Settings > Advanced Mode**.



Enable LAN port isolation

Setting	Description	Factory Default
Enable or Disable	Enable or disable the LAN port isolation function. Enabling this function will isolate devices connected to the CCG Series device's LAN ports from each other.	Enabled

Protocol

Modbus

The **Modbus** page is used to enable Modbus protocol support and configure relevant protocol settings.

Go to **Protocol > Modbus**.

Modbus
Home > Protocol > Modbus

Enable

Interface
RS232

TCP Port
502

Maximum Connections
32

Retry Count
3

Timeout (sec)
60

Serial Baud Rate
115200

Parity
None

Data Bits
 8

Stop Bits
 1 2

SAVE

Enable

Setting	Description	Factory Default
Enable or Disable	Enable or disable Modbus protocol support.	Disabled

Interface

Setting	Description	Factory Default
RS232, RS422, RS485	Select the interface used for Modbus communication.	RS232

TCP Port

Setting	Description	Factory Default
1 to 65535	Specify the Modbus TCP port.	502

Maximum Connections

Setting	Description	Factory Default
---------	-------------	-----------------

1 to 32	Specify the maximum number of concurrent connections allowed.	32
---------	---	----

Retry Count

Setting	Description	Factory Default
0 to 15	Specify the number of times the system will attempt to re-establish the Modbus connection.	3

Timeout (sec)

Setting	Description	Factory Default
0 to 1000	Specify the duration of inactivity (in seconds) after which the connection will time out.	60

Serial Baud Rate

Setting	Description	Factory Default
9600, 19200, 38400/, 57600, 115200, 230400, 460800, 921600	Specify the serial baudrate value.	115200

Parity

Setting	Description	Factory Default
None, Even, Odd	Select the parity mode.	None

Data Bits

Setting	Description	Factory Default
8	Select the number of data bits.	8

Stop Bits

Setting	Description	Factory Default
1, 2	Select the number of stop bits.	1

When finished, click **SAVE**.

System Management

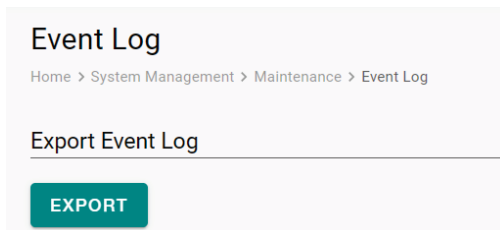
Maintenance

The **Maintenance** section covers the event log, configuration backup and import, and diagnostics functions.

Event Log

The **Event Log** page is used to export the device's event log to a specified location.

Go to **System Management > Maintenance > Event Log**.



Click **EXPORT** to save CCG Series device's event log.

Configuration File Import/Export

From the **Config. Import/Export** page, you can export the current configuration or import a previously exported configuration file.

Go to **System Management > Maintenance > Config. Import/Export.**

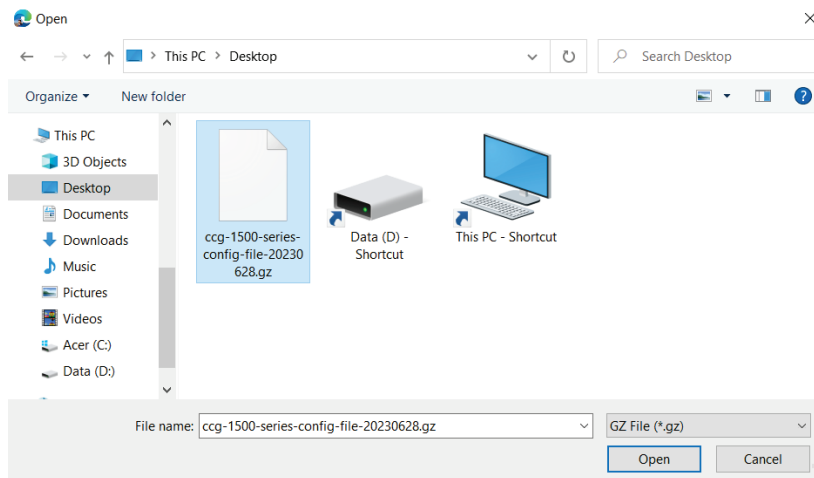
Exporting the Device Configuration

The screenshot shows the 'Config. Import/Export' page. Under the 'Export' section, there is a text instruction: 'Click "EXPORT" to export the current system configuration as a configuration file.' Below this is a green button labeled 'EXPORT'. Under the 'Import' section, there is a text instruction: 'Click "BROWSE" to select a previously exported configuration file upload the file.' Below this is a 'Configuration File' label, a 'BROWSE...' button, and an 'UPLOAD' button.

Click **EXPORT** to export the configuration file of the CCG Series device to the local host machine. The configuration file will be compressed and exported to the specified location in **.gz** format.

Importing a Device Configuration Backup

Click **BROWSE** and navigate to the configuration backup file (in .gz format) on the local machine. Select the file and click **OPEN**.



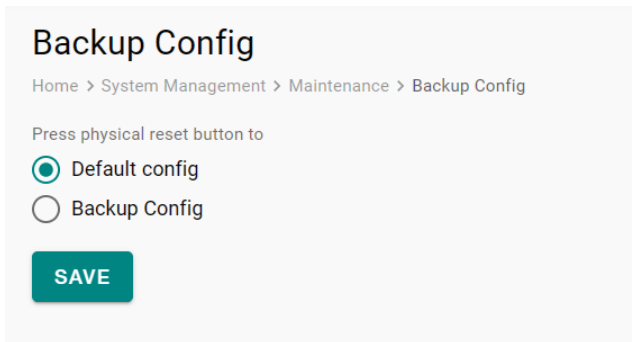
Click **UPLOAD** to import the selected configuration file to the CCG Series device. A prompt will appear to reboot the device. Once rebooted, the system will apply the imported configuration settings.

The screenshot shows the 'Config. Import/Export' page, specifically the 'Import' section. It contains the same text instruction as above: 'Click "BROWSE" to select a previously exported configuration file upload the file.' Below this, the 'Configuration File' field now contains the filename 'ccg-1500-series-config-file-20230628.gz' with a file icon on the left and a close button on the right. The 'UPLOAD' button is now active and highlighted in green.

Backup Configuration File

The **Back Config** page is used to select which configuration the device will restore if the device is physically reset.

Go to **System Management > Maintenance > Backup Config**.



Default/Backup Config

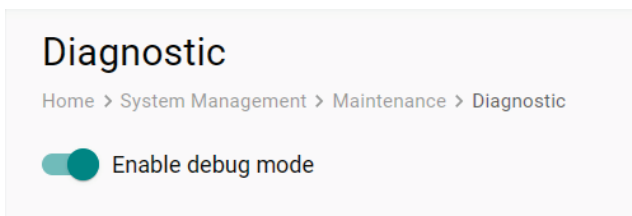
Setting	Description	Factory Default
Default config	The device will restore the default factory configuration when reset.	Default config
Backup config	The device will restore the currently saved backup configuration when reset. To upload a backup configuration, refer to Configuration File Import/Export .	

When finished, click **SAVE**.

Diagnostic

The Diagnostic page allows you to enable or disable debug mode. This function is mainly used by Moxa technical support engineers to troubleshoot the device.

Go to **System Management > Maintenance > Diagnostic**.



Enable debug mode

Setting	Description	Factory Default
Enable or Disable	Enable or disable debug mode used for troubleshooting.	Enabled

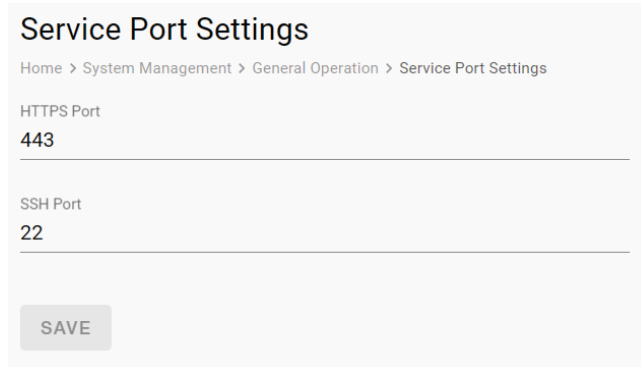
General Operation

The **General Operation** section covers service port and time settings. You can also restart or reset the device from this section.

Service Port Settings

From the **Service Port Settings** page, you can configure the protocol access ports to connect to the device.

Go to **System Management > General Operation > Service Port Settings**.



HTTPS

Setting	Description	Factory Default
1 to 65535	Specify the HTTPS port number. The following ports are reserved and cannot be used: 53, 80, 500, 502, 1701, 1723, 4500, 5037, 7777.	443

SSH

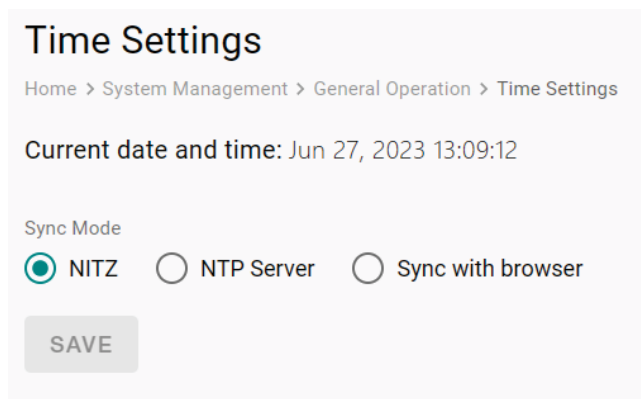
Setting	Description	Factory Default
1 to 65535	Specify the SSH port number. The following ports are reserved and cannot be used: 53, 80, 500, 502, 1701, 1723, 4500, 5037, 7777.	22

When finished, click **SAVE**.

Time Settings

From the Time Settings page, you can configure the system time.

Go to **System Management > General Operation > Time Settings**.



Sync Mode

Setting	Description	Factory Default
NITZ	Synchronize the system time using NITZ.	NITZ

NTP Server	Synchronize the system time with the specified NTP server. Additional configuration options will be available.	
Sync with browser	Synchronize the system time with the browser time.	

When finished, click **SAVE**.

If you selected **NTP Server**, configure the following settings.

Sync Mode

NITZ
 NTP Server
 Sync with browser

Time Zone
GMT+08:00

Interval (sec)
7200

Time Server
time.stdtime.gov.tw

SAVE

Time Zone

Setting	Description	Factory Default
Time Zone	Select the NTP server's time zone.	GMT +08:00

Interval (sec)

Setting	Description	Factory Default
60 to 604800	Specify the interval (in seconds) at which the device will sync the system time with the NTP server.	7200

Time Server

Setting	Description	Factory Default
Server Address	Specify the NTP server address.	time.stdtime.gov.tw

When finished, click **SAVE**.

Reset to Default

Go to **System Management > General Operation > Reset to Default**.

Reset to Default

Home > System Management > General Operation > Reset to Default

Factory Reset

Click Reset button to reset the device back to the factory default.

RESET

Click **RESET** to reset the device to its default factory settings.

Firmware Upgrade

From the **Firmware Upgrade** page, you can upload new firmware versions to the device.

Go to **System Management > General Operation > Firmware Upgrade**.

Firmware Upgrade

Home > System Management > General Operation > Firmware Upgrade

Upgrade

You may upload the upgrade file from your local drive.

Firmware File Type

General Image Full Image

Firmware Upgrade File

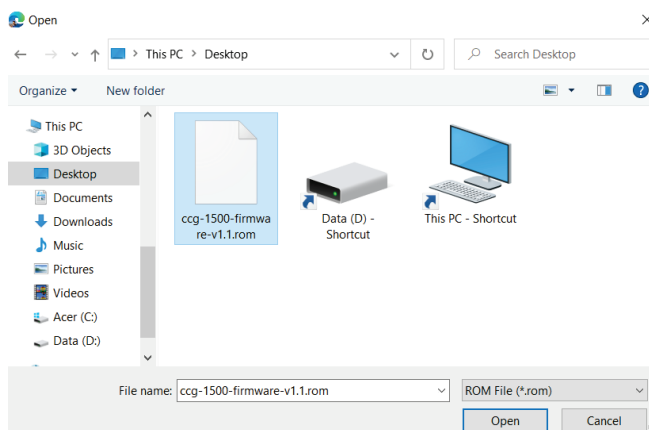
BROWSE...

UPLOAD

Firmware File Type

Setting	Description	Factory Default
General Image	Upload a general firmware image. This type of firmware only includes an applications component.	General Image
Full Image	Upload a full firmware image. This type of firmware includes both an applications and baseband component.	

Click **BROWSE** and navigate to the firmware file (in .rom format) on the local machine. Select the file and click **OPEN**.



Click **UPLOAD** to import the selected firmware file to the CCG Series device.

Upgrade

You may upload the upgrade file from your local drive.

Firmware File Type

General Image Full Image

Firmware Upgrade File

UPLOAD

Reboot

Go to **System Management > General Operation > Reboot**.

Reboot

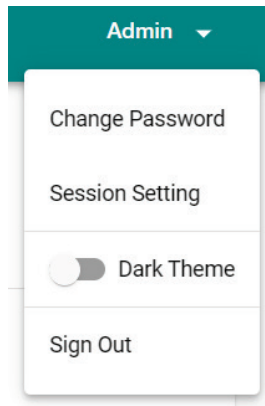
Home > System Management > General Operation > Reboot

REBOOT

Click **REBOOT** to restart the device.

Administration Management

Click **Admin** in the upper-right corner of the page to open the user management menu. You can perform several basic functions from this menu.



Change Password

From the user management menu, click **Change Password** to update your user password. The password is subject to certain limitations and requirements.

Change Password

New Password

Contains at least 8 characters
Contains at least 1 number
Contains at least 1 special character
Contains at least 1 lower character
Contains at least 1 upper character

Confirm Password

CANCEL SAVE

When finished, click **SAVE**.

Session Setting

From the user management menu, click **Session Setting** to specify the duration of inactivity before the login session is terminated.

Session Setting

Session Timeout (min)

5

CANCEL

SAVE

When finished, click **SAVE**.

Dark Theme

From the user management menu, click the **Dark Theme** toggle to enable or disable the dark UI theme.



Sign Out

From the user management menu, click **Sign Out** to immediately log out from the device. You will be automatically redirected to the login page.

