

# ACM5508-2, ACM5508-2-I & ACM5508-2-M Quick Start Guide

Thank you for purchasing the ACM5508-2-I/M management gateway. This Quick Start walks you through installation and configuration. More details are available in the *User Manual* which can be downloaded from <http://opengear.com/documentation>.

## Step1 Check kit contents



ACM5508-2-I/M device. External rack mount tabs. UTP cables. Straight (319014) & crossover (319015) DB9F-RJ45S. Straight (319016) DB9M-RJ45. Quick Start. 12VDC power pack.

External green connector block rack and DIN rail mount tabs (ACM5508-2-I only)

## Step 2 Configure the hardware

- Attach rubber feet to base and attach the desired mounting tab
- Connect the *ETH1* port to your network
- Plug your serial console devices into *SERIAL 1-8* (all Cisco RJ45 pin-out). Connect your USB devices to the two *USB* ports

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**Note:** Refer ACM5500-I Addendum for RS422/485 and DIO connection details on ACM5508-2-I

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- Plug in the green screw terminal block and attach external sensors and DIO

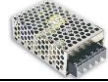
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**Note:** If you plan to use out-of-band (OoB) dial-in access, connect the ACM5508-2-M internal modem to the phone line. If you plan to use broadband OoB, connect the access device (such as DSL modem) to *ETH2*.

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- Apply power
  - The ACM5508-2 and ACM5508-2-M can now be powered externally by connecting the provided external power pack to the 12VDC barrel socket
  - The ACM5508-2-I can also be powered using external power pack or by
    - connecting an external 9 to 24 VAC source to the 12VDC barrel socket or
    - connecting +9V to 30 VDC to *DC PWR* and *GND* on the green terminal block

**Note:** If you ordered the -SDC option you'll have an external DC-DC power converter (input voltage +/- 36V DC to 72V DC). The converter power cable/ connector plugs into the *12VDC* socket



- The ACM5508-2-I/M is ready for activation when the PWR status LED on the front panel of the unit is lit steady, and the H/B (heartbeat) LED is flashing

## Step 3 Set up the management gateway

The default IP Address is *192.168.0.1* (subnet mask *255.255.255.0*). With a web browser on any computer that is network connected to the ACM5508-2-I/M:

- Enter **https://192.168.0.1** into the address bar

**Note:** The LAN connected computer must have an IP address in the same network range (*192.168.0.xxx*) as the ACM5508-2-I/M. If this is not convenient, you can use the ARP Ping command to set the IP address. Refer to the User Manual or online FAQ for details. The ACM5508-2-I/M also has DHCP enabled by default, so it will automatically accept any network IP address assigned by any DHCP server on your network. It will then respond at both *192.168.0.1* and its DHCP address

- Log in using the default system user name *root* and the password *default*. A **Welcome** screen listing the basic configuration steps is displayed

It is recommended that you set up a new Administrator user (in the *admin* group with full access privileges) and login as this new user for all ongoing administration functions (rather than continuing as *root*).

- Select **System: Administration**. Enter and confirm a new **System Password** and click **Apply**
- To assign your ACM5508-2-I/M a static IP address or to permanently enable DHCP on the primary Ethernet network, select **System: IP** then **Network Interface** and check **DHCP** or **Static** for **Configuration Method**

System Name: im4216 Model: IM4216 Firmware: 2.5.0  
Uptime: 2 days, 21 hours, 46 mins, 11 secs Current User: root

**System: IP**

**Serial & Network**

- Serial Port
- Users & Groups
- Authentication
- Network Hosts
- Trusted Networks
- Cascaded Ports

**Alerts & Logging**

- Port Log
- Alerts
- SMTP
- SNMP

**System**

- Administration
- Firmware
- IP
- Date & Time
- Dial

**Network Interface** Management LAN Interface General Settings

**IP Settings: Network**

Configuration Method  DHCP  Static  
The mechanism to acquire IP settings.

IP Address   
A statically assigned IP address.

Subnet Mask   
A statically assigned network mask.

Gateway   
A statically assigned gateway.

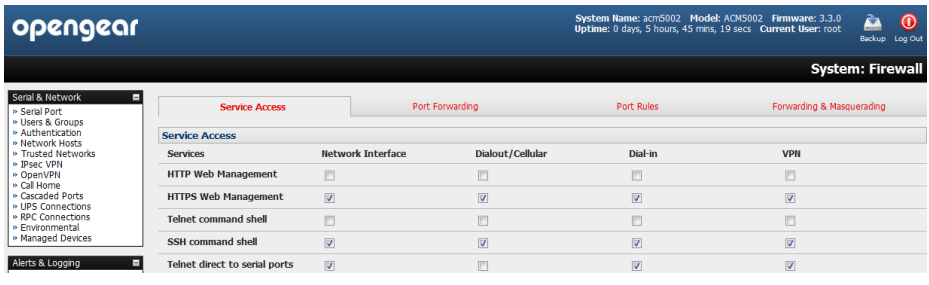
Primary DNS

The second Ethernet network port (*ETH2*) is inactive by default. It can be set up for failover/OoB access (refer User Manual) or as a management gateway/LAN:

- Select **Management LAN Interface** and uncheck **Disable**
- Enter the **IP Address** and **Subnet Mask** for this segment of the Management LAN (leaving **Gateway** and **DNS** fields blank). Refer to the *User Manual* if you

wish to enable the DHCP server or change default firewall/router setting on either LAN port

**Note:** The management gateway's firewall determines which protocols/ services can be used to access which ports/ devices. Please refer to the User Manual and FAQs before changing any of the default services or access settings. By default only HTTPS and SSH access is enabled to the management gateway itself. But you can use **Service Access** menu on **System: Firewall** to change settings for the gateway itself (and for connected serial ports). Similarly using the **Forwarding & Network** menu you can permit remote IP access (e.g. over cellular) to devices on Network or Management LAN.



System Name: acm5002 Model: ACM5002 Firmware: 3.3.0  
Uptime: 0 days, 5 hours, 45 mins, 19 secs Current User: root Backup Log Out

System: Firewall

Serial & Network

- Serial Port
- Users & Groups
- Authentication
- Network Hosts
- Trusted Networks
- Basic VPN
- OpenVPN
- Call Home
- Cascaded Ports
- UPS Connections
- RFC Connections
- Environmental
- Managed Devices

Alerts & Logging

Services	Network Interface	Dialout/Cellular	Dial-in	VPN
HTTP Web Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HTTPS Web Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Telnet command shell	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SSH command shell	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Telnet direct to serial ports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Step 4 Configure serial, network & USB devices

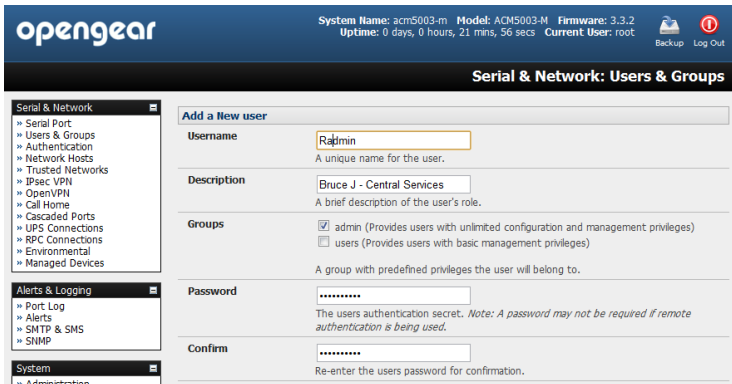
- Select **Serial & Network: Serial Port** to display the labels, modes and protocol options currently set for each serial port – by default all serial ports are set in Console Server mode (refer to the *User Manual* if other modes are required). To configure a serial port, click **Edit**:
  - Configure the **Common Settings** (Baud Rate, Parity, Data Bits, Stop Bits and Flow Control) to match those of the device being controlled
  - Select the **Console Server** protocols (Telnet, SSH, TCP and RFC2217) that are to be used for the data connection to that port
  - A **Logging Level** may also be set to specify the level of information to be logged and monitored for each that port
  - Click **Apply**
- To enable SSH tunneled access through the RIM gateway to a locally networked device (referred to as a *host*), select **Serial & Network: Network Hosts** and click **Add Host**:
  - Enter the **IP address/DNS Name** of the host
  - Edit the **Permitted Services** used for accessing this host, e.g. HTTPS (TCP port 443), VNC (TCP port 5900), or add custom TCP or UDP port numbers – only the services specified here are tunneled through to the host, all other services are blocked
  - At this stage you may also specify the level of information to be logged and monitored for each host access. Click **Apply**
- Your ACM5508-2-I/M has two external USB2.0 ports. Attached USB devices are auto-configured so you can access to USB console ports, modems or external USB flash. The

ACM5508-2-I/M also has an internal 4GB flash which can be used for log storage, config backup etc

- Configure user access to serial ports via **Serial & Network: Users & Groups**

## Step 5 Add new users

- For each new user, select **Serial & Network: Users & Groups** and click **Add User**
- Enter a **Username** and enter and confirm a **Password**, and nominate the **Accessible Hosts** and **Accessible Ports** the user is allowed to access
- To grant limited access to the Management Console, check the **user Group**, to grant full access to the Management Console, check the **admin Group** – by default the user is granted no Management Console access. Click **Apply**



The screenshot shows the OpenGear web interface. At the top, the system name is 'acm5003-m', model is 'ACM5003-M', and firmware is '3.3.2'. The uptime is '0 days, 0 hours, 21 mins, 56 secs' and the current user is 'root'. There are 'Backup' and 'Log Out' buttons. The main navigation menu is 'Serial & Network: Users & Groups'. The left sidebar shows a tree view with categories: Serial & Network (Serial Port, Users & Groups, Authentication, Network Hosts, Trusted Networks, IPsec VPN, OpenVPN, Call Home, Cascaded Ports, UPS Connections, RPC Connections, Environmental, Managed Devices), Alerts & Logging (Port Log, Alerts, SMTP & SMS, SNMP), and System (Administration). The main content area is titled 'Add a New user' and contains the following form fields:

- Username:** 'Rajrmin' (with a note: 'A unique name for the user.')
- Description:** 'Bruce J - Central Services' (with a note: 'A brief description of the user's role.')
- Groups:** Two checkboxes:  'admin (Provides users with unlimited configuration and management privileges)' and  'users (Provides users with basic management privileges)'. A note below says: 'A group with predefined privileges the user will belong to.'
- Password:** A masked field with a note: 'The users authentication secret. Note: A password may not be required if remote authentication is being used.'
- Confirm:** A masked field with a note: 'Re-enter the users password for confirmation.'

## Step 6 Other Functions

The ACM5508-2-I/M also offers many more advanced functions including *an Automated Response, Alerts & Logging* facility, management of third party UPSs with *Manage: Power, Serial Port Cascading, Authentication, Trusted Networks, Secure Tunneling, Distributed Monitoring, Custom Scripting* and a *Command Line* interface. Refer to the *User Manual* for details.



**Please register your product** to activate the warranty and to automatically receive advice of future firmware updates. Go to:

<http://opengear.com/product-registration.html>