ACM700x-2 Quick Start Guide

The *ACM700x-2 Quick Start Guide* documents installation, configuration and local operation for the ACM7004-2, ACM7004-2-M, ACM7008-2, and the ACM7008-2-M.

01. Check the kit's contents are complete

#	item	part #	links to Opengear stores
1	ACM700x-2 or ACM700x-2-M	varies	
1	12V switching DC power supply	450031	US UK EU AU INT
4	Country-specific power socket adapters	n/a	Part of the power supply.
1	Rack kit (1 tab, 2 rack screws, 2 nuts, 3 screws)	590003	Not available separately.
4	Adhesive-backed rubber feet	n/a	Not available separately.
1	DB9F-to-RJ45 crossover serial adapter	319015	US UK EU AU INT
1	Digital I/O converter (terminal block)	n/a	Not available separately.

02. Assemble the hardware

01. If free-standing: attach the adhesive-backed rubber feet to the *ACM700x-2's* base.

02. If rack-mounted: attach the rack kit to the side of the *ACM700x-2* which will be fixed to the rack.

03. Connect the *ACM700x-2* to your primary network via *NET1*.

04. Connect the *ACM700x-2* to your Out-of-Band (OOB) management network via *NET2*.

Note: Note: the ACM7008-2-M also includes Small Form-factor Pluggable (SFP) ports for *NET1* and *NET2* for connection to fiber-optic cabling. If an SFP module is plugged in and establishes a working link, the SFP port activates and the paired RJ45 port deactivates.

05. If you have an ACM7004-2-M or an ACM7008-2-M, plug an RJ-11 cable into the front-facing RJ-11 port to connect to the built-in V.92 modem.

06. Plug the other end of this RJ-11 cable into a working land-line port to allow the ACM700x-2-M's V.92 modem to dial-out.

07. Connect other devices to the *ACM700x-2's* serial ports and USB ports.

08. If you have external sensors: plug in the terminal block and attach sensors and DIO devices.

09. Plug in the 12V DC power supply and turn on power to the *ACM700x-2*.

03. Connect to the ACM700x-2

The *ACM700x-2* is addressable at either of two IP addresses:

01. its built-in address of 192.168.0.1/24.

02. the address its on-by-default DHCP client accepts from a DHCP server on your network.

Using a browser on the same network as the *ACM700x-2's* NET1 port with an IP address in one of the *ACM700x-2's* network ranges (ie 192.168.0.x/24 or the range used by your DHCP server):

03. Enter ***https://192.168.0.1/*** or ***https://[DHCP-supplied address]/*** in the address bar and press ***Return***.

Note: the ACM700x-2 has a self-signed SSL certificate: 'untrusted connection' errors will present.

04. Click through these errors to load the *ACM700x-2* login page.

05. Enter the default system username and passcode:

    Username: ***root***

    Password/Passcode: ***default***

    and press ***Submit*** or hit ***Return***

05. The Opengear Management Console (OMC) *Welcome* page loads.

Note: the OMC logs you out after 20 inactive minutes. The current page stays loaded, however, and clicking any UI element loads the login page. Log back in and the requested page loads.

Configuration and management options present in expanded-by-default menus down the left-hand edge. The top-level menus are ***Manage***, ***Status***, ***Serial & Network***, ***Alerts & Logging***, and ***System***.

The rest of the page lists configuration tasks required to turn the *ACM700x-2* into a usable unit. Some of these tasks will be marked as done because of the *ACM700x-2's* factory settings. The following procedures document initial configuration using the menus rather than the task list.

04. Set a strong, high-entropy passcode for the root user

01. Click ***Serial & Network > Users & Groups***.

02. Click ***Edit*** for the ***Root User***.

03. Enter a strong, high-entropy passcode in the ***Password*** field.

04. Re-enter the passcode in the ***Confirm*** field.

05. Click ***Apply***.

05. Set NET1's network configuration method

01. Click ***System > IP***.

02. Click ***Network Interface*** if it is not the front-most tab.

03. For ***Configuration Method*** click either the ***DHCP*** or ***Static*** radio button.

04. If ***Static***, enter an ***IP Address*** and ***Subnet Mask*** for the NET1 interface.

06. Set NET2's network configuration method

NET2 is set to inactive by default. To activate it:

01.   Click *System > IP*.

02.   Click *Management LAN Interface* to make it the front-most tab.

03.   Click the *Deactivate this network interface* checkbox to de-select this option and activate NET2.

04.   For *Configuration Method* click either the *DHCP* or *Static* radio button.

05.   If *Static* enter an *IP Address* and *Subnet Mask* for the NET2 interface. For OOB, set these for your management network. For IP-passthrough, set these to match an unused private IP range.

Note: the *ACM700x-2's* firewall determines which protocols and services can access which ports and devices. HTTPS and SSH are enabled to the *ACM700x-2* itself by default. To change access settings for the *ACM700x-2*, and for connected serial ports, click *System > Services*, click the *Service Access* tab and adjust as required.

07. Configure managed devices

01.   Click *Serial & Network > Serial Port*.

The ACM700x-2's serial ports and their labels, modes, and protocols displays. To configure a port:

02.   Click *Edit*.

03.   Set the *Common Settings for Port x* to match the device connected to serial port x.

04.   To enable remote access to the device check the *Console Server Mode* radio button in *Console Server Settings* and click the checkboxes for allowed protocols (eg *Telnet*, *SSH* and *Web Terminal*).

05.   Click *Apply*.

Note: configure user access policies for connecting to such ports in *Serial & Network > Users & Groups*. An AAA server can configure them remotely. The *Opengear User Manual* has details.

08. Other modes and functions

Please refer to the Opengear User Manual for details of other advanced features, such as modem configuration, PDU (RPC) and UPS power management, environmental monitoring, logging and Auto-Response alerting.