

ACM5000

Quick Start Guide

Thank you for purchasing the ACM5000. This Quick Start walks through installation, configuration. For more details refer to the *User Manual* on the CDROM.

Step 1 Check kit contents



ACM5000
Console server



UTP cables (2) and DB9F-RJ45 straight
(319014) and cross-over (319015)



Quick Start &
CDROM



12VDC Power
pack

Step 2 Connect the hardware

- Attach the four rubber feet to the base, or attach the mounting bracket
- Slide the appropriate AC socket adapter into the power pack and plug into the AC mains. Connect the DC power cable to the PWR socket on the ACM5000

Alternately the ACM5000 can be powered directly from any external +9V DC to +30V DC power source. Connect the DC power to the PWR socket

Note: The ACM5000-SDC models are supplied with an external DC-DC power converter which has a power cable/connector that plugs into the PWR socket on the ACM5000. The input voltage for the DC-DC converter is plus or minus 36V DC to 72V DC



- Connect the Ethernet port (LAN USB1) to your network. Plug your serial console devices in to the Serial Ports. The RJ45 sockets on the ACM5000 use the standard Cisco pin-out

Step 3 Set up the console server

The default console server 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 console server:

- 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 console server. If this is not convenient, you can use the *ARP Ping* command to set the IP address. Refer *User Manual* or online FAQ for details. The console server also has DHCP enabled by default, so it will automatically accept any network IP address assigned by any DHCP server on your network – and will then respond at both 192.168.0.1 and its DHCP address

- Log in using the default system user name *root* and the default password *default*. A **Welcome** screen listing the basic configuration steps is displayed
- Select **System: Administration**. Enter and confirm a new **System Password** and click **Apply**
- To assign your console server a static IP address or to permanently enable DHCP, select **System: IP** then **Network Interface** and check **DHCP** or **Static** for **Configuration Method**

Step 4 Configure serial & network devices

- Select **Serial & Network: Serial Port** to display the label, mode and protocol options currently set for each serial port. By default Port 1 is set up as a Local Console/Modem port (enabling command line access) and each other serial port is set in *Console Server* mode (refer the *User Manual* if other modes are required). To configure a particular serial port, click **Edit**

Port #	Label	Mode	Logging Level	Parameters	Flow Control	
1	Port 1	Console (dhcpconfigured)	0	9600-8-N-1	None	Edit
2	Port 2	Console (dhcpconfigured)	0	9600-8-N-1	None	Edit
3	Port 3	Console (dhcpconfigured)	0	9600-8-N-1	None	Edit
4	Port 4	Console (dhcpconfigured)	0	9600-8-N-1	None	Edit

- Configure the **Common Settings** (Baud Rate, Parity, Data Bits, Stop Bits and Flow Control) to match those of the serial console/device being controlled
- Select the **Console Server** protocols (Telnet, SSH, TCP, RFC2217) that are to be used for the data connection to the serial port
- A **Logging Level** may also be set to specify the level of information to be logged and monitored for the serial port. Click **Apply**
- To enable access through the console server to a locally networked computer or device (referred to as a *host*) select **Serial & Network: Network Hosts** and click **Add Host**
- Enter the **IP address/DNS Name** of the host, and 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 SSH 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**

Step 5 Add new users

Note: 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*)

- For each new user select **Serial & Network: Users & Groups**. 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

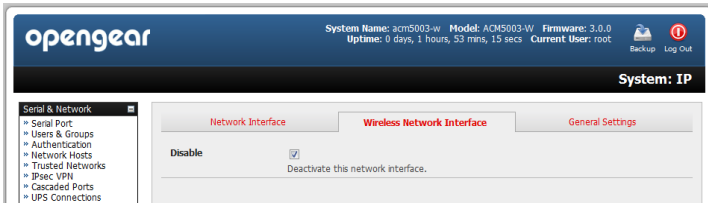
- Click **Apply**

Step 6 Advanced configurations

Note: The ACM5000 family has various models which may require some custom set up

ACM5003-M has an internal modem which can be configured for dial-in access (or dial-out failover connection) using the **Internal Modem Port** tab under **System: Dial**

ACM5003-W comes with an internal 802.11 wireless modem which can be configured using the **Wireless LAN Interface** menu in the **System: IP** menu. The wireless LAN is deactivated by default and when enabled will operate as the main network connection. Failover is available (though it not *enabled* by default)



ACM500x-E models support the direct connection of external temperature, humidity, physical access, smoke alarms (refer *Quick Start Addendum* page)

ACM5004-2-I/T models support RS232/422/485, digital I/O and hardened operating environments (refer *Quick Start Addendum* page)

ACM5004-G comes with an internal 3G cellular modem (and its own *Quick Start Guide*)



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>

The ACM5000 also offers many more advanced functions including:

- ❖ The **Alerts & Logging: Alerts** facility monitors serial ports, hosts, user logins, power etc. All ACM5000 models have an internal temperature sensor which can be monitored and used to trigger alerts. External EMDs can also be connected to the ACM5000 serial ports. A broad selection of trigger can be specified. When triggered, a warning email, SMS, Nagios or SNMP alert is sent
- ❖ Management of third party UPSes and PDUs using open source *NUT* and *Powerman* tools. The **Manage: Power** facility enables both administrators and regular users to manage attached power strips, and servers with embedded IPMI.
- ❖ Historical logs of all communications with serial and network attached devices, system activity, UPS and PDU power status, environmental status, etc. The level of logging is set as ports and devices are configured, **Alerts & Logging: Port Log** allows this history to be saved locally or remotely
- ❖ Other advanced features, such as *Serial Port Cascading*, remote *Authentication*, *Trusted Networks*, *Secure Tunneling*, *Nagios Distributed Monitoring*, the *Command Line* interface – these are covered in detail in the *User Manual* on the CDROM.

Note: On the CDROM you will find the *PortShare* and *SDT Connector* software tools. *SDT Connector* provides you with secure, point and click access to the console server and all the attached devices *PortShare* connects the COM/tty port applications on your Windows PC, Linux server or virtual machine to the serial devices attached to the ACM5000 **Refer to the provided Quick Starts**