

CM4116 & CM4148 **Quick Start Guide**

Thank you for purchasing the CM4116/48 console server. This Quick Start walks you through installation, configuration and local operation. For more details please refer to the User Manual on the CDROM.



Check kit contents



and cross-over

Power cable

Connect the hardware Step 2

- \geq Plug the CM4116/48 console server into the AC mains
- Connect the LAN port on the console server to your network, connect your serial ≻ devices to the console server SERIAL ports 1 through 16/48

If you plan to use out-of-band (OoB) dial-in access, connect an external Note: modem to the LOCAL serial port.

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 LAN connected to the console server:

Enter https://192.168.0.1 into the address bar \geq

- Note: The LAN connected computer must have an IP address in the same network range (192.168.0.xxx) as the B096 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 its DHCP client 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.
 - \geq 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 \geq and click Apply

opengea	System Kame: mg4004-5 Kodel: IMG4004-5 Firmware: 2.6.0p6 Uptime: 6 days, 12 hours, 36 mms, 16 secs Current User: root	
		System: Administration
Serial & Network		
 » Serial Port. » Users & Groups » Authentication » Network Hosts » Trusted Networks » Cascaded Ports » UPS Connections » RPV Connectal 	System Name	img4004-5
		An ID for this device.
	System Description	
		The physical location of this device.
	System Password	
		The secret used to gain administration access to this device.
Alerts & Logging * Port Log * Alerts * SMTP & SMS	Confirm System Password	••••••
		Re-enter the above password for confirmation.
	Apply	

 \geq 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

Configure serial & network devices Step 4

≻ Select Serial & Network: Serial Port to display the label, mode and protocol options currently set for each serial port - by default, each serial port is set to Console Server mode (refer the *User Manual* if other modes are required)

opengear				System Name: img4004-5 Model: IMG4004-5 Firmware: 2.6.0p6 Uptime: 6 days, 12 hours, 29 mns, 39 secs Current User: root			
					Serial & I	Network: Sei	rial Port
Serial & Network = Serial Port = Users & Groups = Authentication = Network Hosts = Trusted Networks = Cascaded Ports = UPS Connections = RPC Connections = Environmental	Port #	Label	Mode	Logging Level	Parameters	Flow Control	
	1	Port 1	Console (Unconfigured)	0	9600-8-N-1	None	Edit
	2	Port 2	Console (Unconfigured)	0	9600-8-N-1	None	Edit
	3	Port 3	Console (Unconfigured)	0	9600-8-N-1	None	Edit
Alerts & Logging Port Log Alerts Alerts SMTD & SMS	4 Edit I	Port 4 Multiple Ports	Console (Unconfigured)	0	9600-8-N-1	None	Edit

- To configure the serial port, click Edit ≻
- \geq 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 \geq 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 (referred to as a *host*), select Serial & Network: Network Hosts and click Add Host

opengear			System Name: Im4216 Model: IM4216 Firmware: 2. Uptime: 2 days, 22 hours, 50 mins, 13 secs Current User: n		
			Serial & Network: Network Hosts		
Serial & Network » Serial Port » Users & Groups » Authomitation	IP Address/DNS Name	The hosts IP Address or DNS name.			
Network Hosts Trusted Networks Cascaded Ports	Description	A brief description of the host.			
Alerts & Logging » Port Log » Alerts » SMTP » SNMP	Permitted Services	22/tcp (ssh) - 0 23/tcp (telnet) - 0 80/tcp (http) - 0 443/tcp (intps) - 0 1494/tcp (ica) - 0 3389/tcp (rdp) - 0 5900/tcp (vnc) - 0	_		
vstem Administration Firmware IP		TCP UDP Port	•		
Date & Time Dial Services		Add The TCP services available from this I	♥ 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

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 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

Step 6 Advanced configurations

The console server offers many more advanced functions including:

- The Alerts & Logging: Alerts facility monitors serial ports, hosts, user logins, UPSes (Uninterruptible Power Supplies), RPCs (Remote Power Controllers, such as PDUs and IPMI devices) and EMDs (Environmental Monitoring Devices). A broad selection of trigger events (such data patterns, temperature or battery levels) can be specified. When triggered, a warning email, SMS, Nagios or SNMP alert is sent to a nominated destination.
- Extensive management of UPSes and RPCs using open source *NUT* and *Powerman* tools. The **Manage: Power** facility enables both administrators and regular users to monitor and control attached PDU power strips, and servers with embedded IPMI BMCs.
- Connect EMDs to any serial port (with an adapter) and remotely monitor the temperature, humidity, physical access, smoke alarms, etc. Details are provided in the *EMD5000 Quick Start* supplied with the EMD.
- 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. Logs can be viewed from the Status and Manage menus.
- 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 also find the SDT Connector software tool. Once you have configured the console server, this tool provides you with secure, point and click access to the console server and all the attached devices. Refer to the provided *SDTConnector Quick Start* for details on setting up remote management of the console server and connected devices.