

IM7200 and IM7200-L

Includes: IM7208, IM7216, IM7232, IM7248 and all IM7200-L models



1. REGISTER

Register your product: https://opengear.com/product-registration

For licensing information and access to source code, visit: https://opengear.com/software-licenses

2. WHAT'S IN THE BOX?

48 Port Infrastructure Manager



- 1. POWER SWITCH & POWER SUPPLY
- 2. NET1 & NET2
- 3. CELL (MAIN)
- 4. CELL (AUX)
- 5. SIM CARD SLOT

7. 24 Port Gigabit Switch (IM7216-2-24E-DAC)

16 Port + 24 USB Port Unit



16 Port + 24 Port Gigabit Switch





Note: Antenna only included with -L models

For the complete list of what's inside the box, visit: https://opengear.com/products/im7200-infrastructure-manager#inside

After opening the box: DO NOT POWER ON RIGHT AWAY

3. CONNECT

Connect the NET1 port to your network. The NET2 port is inactive by default. Refer to the User Manual for instructions to activate it.

4. POWER UP

Plug the AC power cable into the unit and connect to a power source. Turn on the switch above the outlet. DAC models have two power switches.

DDC models have dual DC power supplies with automatic failover. Connect these to DC power sources with the included external screw connector blocks.

For -L models, attach the included antennas or external mount to the CELL (MAIN) and CELL (AUX) connectors. If you have a data plan, insert a carrier-provided mini-SIM into the SIM CARD slot with contacts facing downward. You should hear a click when it is correctly inserted.

5. LOG IN

Browse to **192.168.0.1** (subnet mask 255.255.255.0) with a computer on the same LAN as the console server. The device will also get a DHCP address.

NOTE: The device has a self-signed SSL certificate. Untrusted connection errors appear. Click through the errors to the login page.

System: Login Username Password/Passcode Submit	Username Password/Passcode	🕼 opengear	Log Out
Password/Passcode	Password/Passcode Submit		System: Login
	Submit	Username	
Submit		Password/Passcode	
	(8 Openeer 2018 Customer Support Ste	Submit	

Log in with username root and password default. Click Submit.

You will now see a Welcome screen with a list of basic configuration steps.

6. CHANGE ROOT PASSWORD

Click Serial & Network > Users & Groups.

Click Edit next to the root user. On the **Edit an Existing User** page, enter and confirm your new password.

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		Serial & Network: Users & Groups
Manage = » Devices	Edit an Existing U	Jser
» Port Logs » Host Logs » Power » Terminal	Username	root A unique name for the user.
Status = » Port Access	Description	Root User A brief description of the user's role.
 » Active Users » Statistics » Support Report » Syslog » UPS Status » RPC Status » LLDP/CDP Neighbors » Environmental Status » Dashboard 	Password	The users authentication secret. Note: A password may not be required if remote authentication is being used.
	Confirm	Re-enter the users password for confirmation.

Scroll to the bottom of the page and click Apply.

7. CHANGE IP SETTINGS

DHCP is enabled by default. If you need to change to a static IP, click System > IP. Under the Network Interface tab, change the Configuration Method to Static IP.

8. CHANGE ACCESS & FIREWALL SETTINGS

The console server's firewall controls which protocols and services can access which ports and devices. By default, the firewall only allows HTTPS and SSH access. To change settings, click **System > Services** and click the **Service Access** tab.

V open	gear				Dos	hboard Manag	Backup Log Out
						Syste	em: Services
Manage	Service S	Settings		Service Access		Brute Force P	rotection
» Port Logs » Host Logs » Power » Terminal	Services	Service Enabled	Network Interface	Management LAN	Dialout/Cellular	Dial-in	VPN
Status = » Port Access	HTTP Web Management	Enabled					0
» Active Users » Statistics » Support Report » Syslog	HTTPS Web Management	Enabled	۵	۵	۵	0	۵
» UPS Status » RPC Status » LLDP/CDP Neighbors » Environmental Status	Teinet command shell	Enabled					
» Dashboard Serial & Network Serial Port Users & Groups Authentication Network Hosts	SSH command shell	Enabled	۵	Ø	0	2	۵
	Telnet direct to serial ports	N/A	0	Ø		0	Ø



To permit IP access between devices on the network or management LAN, click **System > Firewall**. Click on the **Forwarding & Masquerading** tab, make any changes, and click **Apply**.

9. CONFIGURE SERIAL & USB DEVICES

Click Serial & Network > Serial Port. Click Edit to modify a specific port.

							Serial & Network: Serial Port		
Port #	Label	Connector	Mode	Logging Level	Parameters	Flow Control			
1	Port 1	RJ45	SDT (root)	3	115200-8-N- 1	None	Edit		
2	catalystswitch	RJ45	Console (SSH, Web Terminal)	3	9600-8-N-1	None	Edit		
3	Port 3	RJ45	Console (SSH, Web Terminal)	0	115200-8-N- 1	None	Edit		

You can modify common settings including Baud Rate, Parity, Data Bits, Stop Bits, and Flow Control as well as port connection settings including SSH, Telnet, Web Terminal, and RFC2217.

The IM7200 also offers a software-selectable pin out (Port PinOut).

Click **Apply** to save any modified settings.

NOTE: Your console server has two USB 3.0 ports which can be connected to USB consoles on UPS supplies or Cisco devices. They may also be used with external USB flash drives to update firmware and configuration files. The IM7216-2-24U also has 24 rear-facing ports that support device console management via USB.

10. ADD USERS AND GROUPS

To add a new user, click **Serial & Network > Users & Groups**. Scroll to the bottom of the page and click **Add User**.

Enter a **Username** and enter and confirm a **Password**. Select the appropriate groups and scroll down to choose the **Accessible Ports** the user is allowed to access.

	Serial & Network: Users & Groups
Add a New user	
Username	A unique name for the user.
Description	A brief description of the user's role.
Groups	admin (Provides users with unlimited configuration and management privileges) ptpd (Group to allow access to the PPTP VPN server - Users in this group will have their password stored in clear text.) dialin (Group to allow dialin access via modems - Users in this group will have their password stored

Click Apply to create the new user account.

NOTE: You should create a new administrative user rather than continuing as the root user. To do so, add a new user to the **admin** group with full access privileges. Log out and log back in as this new user for all administrative functions.

To create a new group, click **Serial & Network > Users & Groups**. At the end of the list of existing groups, click **Add Group**.

Enter a new group name in the **Groups** field. Select any appropriate **Roles, Hosts**, **Ports**, and **RPC outlets**.

	Serial & Network: Users & Groups
Add a New group	
Groups	A group with predefined privileges the user will belong to.
Description	A brief description of the group's role.
Roles	
	s and managed devices

Click **Apply** to create the new group.

11. ACCESS DEVICE CONSOLES

Your console server is now ready to access device consoles on your network, depending on the protocols you chose in Step 9.

SSH:

- To connect to the pmshell chooser menu, SSH to the console server and log in appending *:serial* to your username, e.g. *root:serial*.
- To connect to a given console, SSH to the console server and login adding the port number or port label to your username, e.g. *root:port02* or *root:MyRouter*.
- To connect directly to a given port, SSH to the console server at TCP port 3000 + the port number, e.g. 3002 for serial port 2.

Telnet:

Telnet to the console server at TCP port 2000 + the port number, e.g.2002 for serial port 2.

Web Terminal:

For console access using your browser, click **Manage > Devices > Serial** and click the port's **Web Terminal** link.

12. USE CELLULAR MODEM (-L MODELS)

In the console, select **System > Dial**.

Click the Internal Cellular Modem tab.

Check the Allow outgoing modem communication radio button.

Enter your carrier's Access Point Name in the APN field.

If necessary, check the **Override returned DNS servers** box and enter your DNS's addresses.*

Click Apply Modem Dial Settings.

*If cellular is not the primary network route, you may need to override the provided DNS servers if you have issues with name resolution.

To check the status of the modem connection:

Select Status > Statistics.

Click the Failover and Out-of-Band tab.

Make sure the Always on Out-of-Band -- Internal Cellular Modem's Connection Status is Connected.

Check the modem's allocated IP Address to see if it is a public or private address.

You can find more information about cellular features in the Opengear Knowledge Base under the **FAQ > Cellular & Wireless** section.

opengear.zendesk.com/hc/en-us/sections/203134783-Cellular-Wireless

This guide is designed to get you started. For complete instructions, download the User Manual from https://ftp.opengear.com/download/manual/current/Opengear_User Manual.pdf

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