

1. REGISTER

This Quick Start Guide covers basic installation and configuration of your new OM2200. For in-depth guidance, consult the OM2200 User Manual.

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

When you register, you:

- Activate your warranty
- · Get notified when firmware updates are released

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

2. WHAT'S IN THE BOX?



2. Local Console* 3. NET1 & NET2 *Console Ports Micro USB/RJ-45



For the complete list of what's inside the box, visit: https://opengear.com/products/om2200-operations-manager/#inside

Some parts may vary.



3. ASSEMBLE

NOTE: **OM22xx** models have two SFP/Ethernet Gigabit labeled **NET1** and **NET2**. **OM22xx-10G** models have SFP+ 10 gigabit connection labeled **NET1** and SFP/Ethernet labeled **NET2**.

Connect to a computer or into your network from any **NET** port for initial configuration.

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 first SIM CARD slot with contacts facing upward. You should hear a click when it is correctly inserted.

Connect other devices to the serial and USB ports.

Plug in the two 12V AC power supplies.

4. 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.

Opengear Operations Manager	
Username	
Password	Log in
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Log in with username root and password default. Click Submit.

The ACCESS > Serial Ports page appears with a list of connected serial devices and links to a Web Terminal or SSH connection for each.

5. CHANGE ROOT PASSWORD

Click CONFIGURE > User Management > Local Users.

Click the **Edit** button next to the root user. On the **User Details** page, enter and confirm the new password.

Opengeor Operations Manager							🔂 Help	System	C+ Log out
MONITOR	Edit User								
ACCESS	V User Details								
CONFIGURE	· Osci betans								
Serial Ports	Username	root							
Local Management Consoles	Description	Syst	em wide						
Network Connections	Password			The user's a A password	uthenticatio may not be	n secret. Note: required if			
Lighthouse Enrollment				remote aut	entication i	s being used			
User Management V	Confirm Password			Re-enter th confirmatio	e user's pass n	word for			
Groups	Group								
Local Users	Memberships		Group Name	Description	Member s				
Remote Authentication				Provides users					

Scroll to the bottom of the page and click Save User.

6. CHANGE IP SETTINGS

DHCP is enabled by default. To change to a static IP click **CONFIGURE > Network Connections > Network Interfaces**.

Operations Manager			😯 Help	♦ System C+ Log out
MONITOR	Network Interfaces			
ACCESS	Interface	Connection	Status	Actions
CONFIGURE	NET1 - 1G Copper/SFP		Enabled Automatic	
Serial Ports				
Local Management Consoles		IPv4 Static	Address 192.168.7.2/24	×
Network Connections		IPv4 DHCP	Address 192.168.34.217/24	≡ ×
Network Interfaces		IPv6 Automatic	Address fdfd:a:b:c:213:c6ff:feef:430e/64	iii ×

Click the **Edit** button next to **IPv4 DHCP**, to modify the DHCP setting. Change **Connection Type** and fill in the requested information in the form that appears. Click **Apply**.

Opengear Operations Manager			
MONITOR	Edit IPv4 DHCP ((NET1 - 1G Copper/SFP)	
ACCESS	✓ Connection □	Details	
CONFIGURE	+ connection b		
Serial Ports	Interface	NET1 - 1G Copper/SFP \$	The interface for connection
Local Management Consoles	Connection		The type of connection
Network Connections	Туре	in ve blich y	to create
Network Interfaces			

7. CONFIGURE SERIAL PORTS

To change settings for individual serial ports, click **CONFIGURE > Serial Ports**. Click **Edit** next to the port you wish to modify.

Opengeor Operations Manager			
MONITOR	Edit Serial Por	t	
ACCESS	V Common Se	attings for Port-1	
CONFIGURE	- common se		
Serial Ports	Label	Port-1	The serial port unique identifier
Local Management Consoles	Mode	Console Server \$	The serial port mode
Network Connections >	Port	X2 (Cisco Straight) \$	The cabling pinout used for this port
Lighthouse Enrollment	Baud	9600	The serial port speed (bps)
User Management 🗸 🗸	Rate	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	····· ()
Groups	Data Bits	8 \$	The number of data bits to use
Local Users	Parity	None \$	The serial port parity
Remote Authentication	Stop Bits	1 💠	The number of stop bits to use
Services >			
Date & Time >	✓ Logging Set	tings	
System >	Logging	Logging Disabled	Specify the detail of data to Log
	Level		

You can change common settings, logging settings, and set IP aliases per serial port. Click **Apply**.

8. ADD USERS AND GROUPS

To add a new user, click **CONFIGURE >User Management > Local Users**. Scroll to the bottom of the page and click **Add User**.

Enter a **Username** and enter and confirm a **Password**. Select the appropriate groups. Check the **User Enabled** box.

Username					
Description					
Password			The user's authentication be required if remote au	secret. Note: A pass thentication is being	sword may not used
Confirm Password			Re-enter the user's passw	vord for confirmation	
Group Memberships		Group Name	Description	Members	
		admin	Provides users with unlimited configuration and manage- ment privileges	1	
		netgrp	Group for users created auto- matically via network authen- tication	0	
User Enabled	0 / 2 Group	s Selected			

Click Save User 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.

Click **CONFIGURE > User Management > Groups**. At the end of the list of existing groups, click the **Add** button.

Enter a new **Group Name**. To control access to specific ports, change the **Role** to **Console User** and select desired ports.

Group Details							
Group Nam	e (
Descriptio	n						
Pol			_				
Ku	Conso	ole User	¢				
Group Enable	d 🗆						
Accessibl Port(s	e ;)						
Select/Uns	elect all Ports						
Select/Uns Port 1	elect all Ports	Port 3	🗆 Port 4	Port 5	Port 6	Port 7	Port 8
Select/Uns Port 1 Port 9	elect all Ports Port 2 Port 10	 Port 3 Port 11 	Port 4	 Port 5 Port 13 	 Port 6 Port 14 	Port 7 Port 15	 Port 8 Port 16
Select/Uns Port 1 Port 9 Port 17	elect all Ports Port 2 Port 10 Port 18	 Port 3 Port 11 Port 19 	 Port 4 Port 12 Port 20 	 Port 5 Port 13 Port 21 	 Port 6 Port 14 Port 22 	 Port 7 Port 15 Port 23 	 Port 8 Port 16 Port 24
Select/Uns Port 1 Port 9 Port 17 Port 25	elect all Ports Port 2 Port 10 Port 18 Port 26	 Port 3 Port 11 Port 19 Port 27 	 Port 4 Port 12 Port 20 Port 28 	 Port 5 Port 13 Port 21 Port 29 	 Port 6 Port 14 Port 22 Port 30 	 Port 7 Port 15 Port 23 Port 31 	 Port 8 Port 16 Port 24 Port 32
 Select/Uns Port 1 Port 9 Port 17 Port 25 Port 33 	elect all Ports Port 2 Port 10 Port 18 Port 26 Port 34	 Port 3 Port 11 Port 19 Port 27 Port 35 	 Port 4 Port 12 Port 20 Port 28 Port 36 	 Port 5 Port 13 Port 21 Port 29 Port 37 	 Port 6 Port 14 Port 22 Port 30 Port 38 	 Port 7 Port 15 Port 23 Port 31 Port 39 	 Port 8 Port 16 Port 24 Port 32 Port 40
 Select/Uns Port 1 Port 9 Port 17 Port 25 Port 33 Port 41 	Port 2 Port 2 Port 10 Port 18 Port 26 Port 34 Port 42	 Port 3 Port 11 Port 19 Port 27 Port 35 Port 43 	 Port 4 Port 12 Port 20 Port 28 Port 36 Port 44 	 Port 5 Port 13 Port 21 Port 29 Port 37 Port 45 	 Port 6 Port 14 Port 22 Port 30 Port 38 Port 46 	 Port 7 Port 15 Port 23 Port 31 Port 39 Port 47 	 Port 8 Port 16 Port 24 Port 32 Port 40 Port 48

Click Save Group to create the new group.

9. ACCESS DEVICE CONSOLES

Your console server is now ready to access device consoles on your network.

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 or SSH via the Web Interface:

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

LIGHTHOUSE CENTRALIZED MANAGEMENT

Lighthouse is a powerful tool that simplifies the way you manage your out-of-band network through a single pane of glass. Better control and visibility provides 24/7 resilient access to your connected IT infrastructure.

Lighthouse 5 features:

- · Centralized scalable administration and automation of nodes
- · Easy to maintain user groups and permissions
- Secure accessibility for all connections using Lighthouse VPN
- · Responsive UI designed and built for NetOps
- Integrated RESTful API

"Deployment is made very easy as Lighthouse learns about attached devices during node enrollment and will dynamically update itself as new devices attach." – Network Computing Magazine Product Review – Dec 2017





Ready to learn more?

Visit lighthouse.opengear.com to download a free evaluation of Lighthouse (up to 5 nodes) and to learn more about Opengear's Centralized Management solutions.

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