



opengear OM1204 Operations Manager 1200 User Guide

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QUICK START GUIDE OPERATIONS MANAGER 1200

Includes:

OM1204, OM1204-L, OM1204-4E, OM1204-4E-L, OM1208, OM1208-L,
OM1208-8E, OM1208-8E-L

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REGISTER

This Quick Start Guide covers basic installation and configuration of the OM1200. For detailed guidance, consult

the Operations Manager User Guide: <https://opengear.com/support/documentation/>.
Register your product: <https://opengear.com/product-registration>
When you register, you:
I Activate your warranty.
I Get notified when firmware updates are released.

WHAT’S IN THE BOX

OM1200 Device

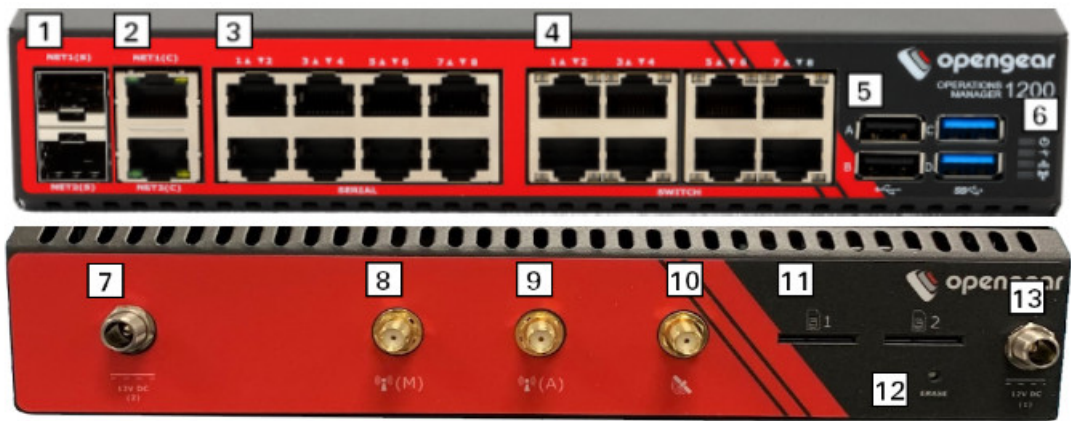


Figure: OM1208-8E-L model

1. NET1 and NET2 (1G SFP) i ii 2. NET1 and NET2 (1G Copper) ii 3. Serial Ports iii 4. Integrated Ethernet Switch iv 5. Front USB Ports 6. LED indicators v 7. DC Power Supply (2) vi	8. Cell (main) vii 9. Cell (aux) vii 10. GPS vii viii 11. SIM card slots vii 12. Config erase button 13. DC Power Supply (1)
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- i. SFP on models with integrated ethernet switch only.
- ii. Combination network interfaces allow either SFP or Copper to be used.
- iii. Number of serial ports varies per model.
- iv. Available on models with integrated ethernet switch only.
- v. LED definitions available in the Operations Manager User Guide.
- vi. Available on dual power supply models only.
- vii. Cellular models only.
- viii. Not implemented.

Kit Contents



Note: Contents may be different from those pictured due to region or supplier.

Label	Item	Quantity	Notes
	OM1200 device	1	
1	12V DC power supply	1	Region-specific Additional units can be purchased from sales
2	Rackmount screw kit	1	
3	OM1200 rack mounts	2	
4	Cisco straight pinout RJ45 to DB9F crossover serial adapter		Part number 319015
5	CAT5e RJ45 UTP straight cable – 5ft/1.5m	1	Part number 440016
6	4G LTE-A Pro Antennas	1	Part number 569042 Cellular models only

Table: List of contents

HARDWARE INSTALLATION

Step 1. Connect Network Interfaces

Connect the device to a local network using any of the available physical network interfaces. All interfaces will receive a dynamic address via DHCP and DHCPv6. Additionally, the device can be accessed from a computer or local network via interface NET1 with a static IPv4 address 192.168.0.1/24.



Figure: Network interfaces for OM1200

Firewall Zone	Network Interfaces
WAN	NET1
LAN	NET2

Table: Default firewall zones for interfaces

Step 2. Connect Cellular Antennas

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 (slot 1) with contacts facing upward.

Note: You will hear a click when it is correctly inserted.

Step 3. Connect Serial Devices

Connect managed devices to the serial interfaces on the front of the unit.

Step 4. Connect USB Devices

USB serial devices can be connected to the USB slots at the front of the unit if required.

Note: USB ports A and B are USB 2.0 and ports C and D are USB 3.0.

Step 5. Connect The Power

Connect the power cable to the rear of the unit. On dual power supply units, a second power cable can be connected if redundancy is required. The power cables can be connected in any order.

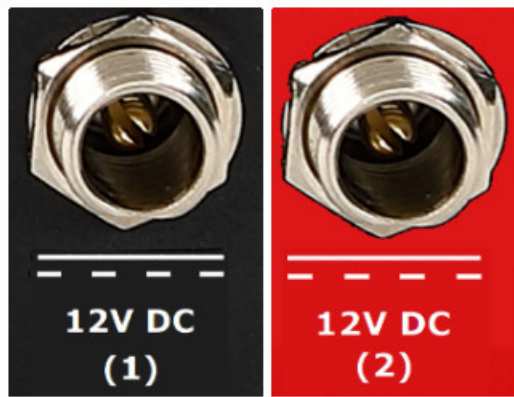


Figure: Dual power supply connectors for OM1200

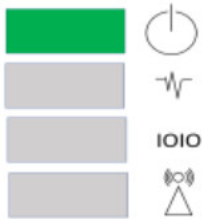


Figure: Power supply has redundancy



Figure: Power supply does not have redundancy

Note: On devices with a single power supply, the LED power status indicator will be green at all times.

ACCESS THE DEVICE

Step 1. Log in via the Web UI

Using a computer on the same subnet as the static network interface shown in “Hardware Installation” on page 4, access the web UI with your web browser at <https://192.168.0.1/>.

Note: The device has a self-signed SSL certificate. Your browser will display an “Untrusted connection” warning. Click through the warning to access the login page.

To log in for the first time, enter the username root and password default and click Submit.

Step 2. Change Root Password

When logging in to the device for the first time you will be prompted to change the root password immediately.

Enter the current password followed by the new password and click Log in.

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

CONFIGURE SNMP POWER ALERTS


Configure > SNMP Alerts > Power > Voltage

Configure the System Voltage Range alert to send an SNMP TRAP whenever the system reboots or the voltage on either power supply leaves or enters the user-configured voltage range.

For more details, consult the Operations Manager User Guide: <https://opengear.com/support/documentation/>.

CONFIGURE SERIAL PORTS

To change settings for individual serial ports:




1. Navigate to CONFIGURE > Serial Ports.
2. Click the Edit button  next to the port you wish to modify.
3. Change port settings, logging settings or configure IP aliases.
4. Click Apply to save changes.

Field	Value
Mode	ConsoleServer
Pinout	X2
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1


CONFIGURE LOCAL CONSOLE

Configure > Serial Ports

Operations Manager OM1200 units have serial port 1 configured in Local Console mode by default.

SERIAL PORTS						
 						
<input type="checkbox"/>	Port #	Label	Mode	Parameters	Port Pinout	Actions
<input type="checkbox"/>	1	Port-1	Local Console	115200-8-N-1	X2	

To configure local console ports:

1. Navigate to CONFIGURE > Serial Ports.
2. Click the Edit button  next to the serial port you wish to modify.
3. Change port settings.
4. Click Apply to save changes.




Field	Value
Mode	LocalConsole
Pinout	X2
Baud Rate	115200
Data Bits	8
Parity	None
Stop Bits	1

Table: Default serial port configuration for local console access


CONFIGURE NETWORK

CONFIGURE > Network Connections > Network Interfaces

Click to expand any row to display status information about the interface and its connections.

NETWORK INTERFACES			
<div>⋮ ⚙ ⌵</div>			
 NET1 - 1G Copper/SFP	2 IPv4 connections 1 Automatic 1 Static	1 IPv6 connections 1 Automatic 0 Static	⌵
 NET2 - 1G Copper/SFP	1 IPv4 connections 1 Automatic 0 Static	1 IPv6 connections 1 Automatic 0 Static	⌵
 Switch	8 Bridged Interfaces	0 IPv4 connections 0 Automatic 0 Static	0 IPv6 connections 0 Automatic 0 Static

Configure Physical Interfaces

Click the Edit button  to configure media and MTU for any of the physical interfaces.

 NET1 - 1G Copper/SFP

Enabled

Disabled

 Enabled Automatic

Modify Default IPv4 Static Interface

1. Click the “IPv4 Static” label under NET1 to open the edit connection page.
2. Enter the IPv4 address.
3. Enter the network mask.
4. Click Apply to save changes.

Configure Cellular Interface

If your unit has a cellular modem it will appear in the list of Network Interfaces. It is disabled by default and requires configuration

 Cellular Interface (LTE)

Enabled

Disabled

 Edit

Step 1. Enable Cellular Interface

Click the Enabled button to enable the cellular interface.

Tip: Before enabling the modem please follow the steps under “Hardware Installation” on page 4 to ensure good signal strength.

Step 2. Enter Carrier APN Settings

If your carrier requires an APN it must be entered before a successful cellular connection can be established.

1. Click the Edit button to open the Manage Cellular Interface page.
2. Expand the SIM Settings section under SIM CARD 1.

SIM CARD 1
Telstra Corp. Ltd.
ICCID: 89610180002889669763
SIM Settings ▾

3. Enter the APN settings for your carrier.
4. Click Confirm to save the changes.

View Switch Port Interfaces

OM1204-4E and OM1208-8E models have an integrated Ethernet switch. The switch ports are bridged together by default in the interface called "Switch".

Switch

8 Bridged Interfaces

0 IPv4 connections
0 Automatic 0 Static

0 IPv6 connections
0 Automatic 0 Static

^

Enabled

Disabled

Edit

Delete

Bridged Interfaces

Switch Port 1

Switch Port 2

Switch Port 3

Switch Port 4

Switch Port 5

Switch Port 6

Switch Port 7

Switch Port 8

There are currently no connections. [Add a new connection](#)

This default bridge can be modified or deleted to configure custom bridges or bonds between any interface. For more details, consult the Operations Manager User Guide: <https://opengear.com/support/documentation/>.

CREATE A NEW ADMINISTRATIVE USER

Note: You should create a new administrative user rather than continuing as the root user.

1. Navigate to CONFIGURE > User Management > Local Users.
2. Click the Add User button at the top-right of the page.
3. Click the User Enabled checkbox.
4. Enter Username and Password.
5. Assign the admin group to the user to provide full access privileges.
6. Click Save User to create the new user account.
7. Log out and log back in as this user for all administrative functions.

Group Memberships

<input type="checkbox"/>	Group Name	Description
<input checked="" type="checkbox"/>	admin	Provides users with unlimited configuration and management privileges
<input type="checkbox"/>	netgrp	Group for users created automatically via network authentication

1 / 2 Groups Selected

For more details about Users and Groups configuration, consult the Operations Manager User Guide:
<https://opengear.com/support/documentation/>.

ACCESS DEVICE CONSOLES

After you have attached managed devices and configured serial ports by following “Configure Serial Ports” on page 7, you can now access the console of your managed devices on your network.

Web UI

1. Navigate to ACCESS > Serial Ports to view the list of serial ports on the device.
2. Click the Web Terminal button 2. to the right of any serial port in Console Server mode to access it via the web terminal.



Console

For administrator users logged in to the device via console or SSH:

1. Type pm shell to view the list of available managed devices.
2. Enter the port number to access the desired device and press Enter.

SSH

The managed devices connected to the Operations Manager can be accessed directly with an SSH command to connect to the device.

1. To view the list of managed devices: `ssh <username>+serial@<device address>`
2. To connect to a specific device by port: `ssh <username>+port<number>@<device address>`
3. To connect to a specific device by name: `ssh <username>+<port label>@<device address>`

Note: The SSH delimiter can be modified via the Web UI at CONFIGURE > Services > SSH.

Telnet

Telnet access to managed devices is not supported at this time.

LIGHTHOUSE CENTRALIZED MANAGEMENT



Note: 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 provide 24/7 resilient access to your connected IT infrastructure. For more information, visit <https://opengear.com/products/lighthouse/>.

To enroll your device:

1. Navigate to CONFIGURE > Lighthouse Enrollment.
2. Click the Add Lighthouse Enrollment button + at the top-right of the page.
3. Enter the Lighthouse Address, Enrollment Token, optional port, and optional Enrollment Bundle.
4. Click Apply to begin the enrollment process.

Note: Enrollment of an Opengear device can also be performed from Lighthouse using Add Node functionality.

Documents / Resources

 <p>opengear A DIGI® COMPANY QUICK START GUIDE OPERATIONS MANAGER 1200 Model: OM1204, OM1204-L, OM1204-4E, OM1204-4E-L, OM1208, OM1208-L, OM1208-8E, OM1208-8E-L</p> <p>2-10-2016</p>	<p>opengear OM1204 Operations Manager 1200 [pdf] User Guide Operations Manager 1200, OM1204, OM1204-L, OM1204-4E, OM1204-4E-L, OM1208, OM1208-L, OM1208-8E, OM1208-8E-L</p>
 <p>opengear A DIGI® COMPANY QUICK START GUIDE OPERATIONS MANAGER 1200 Model: OM1204, OM1204-L, OM1204-4E, OM1204-4E-L, OM1208, OM1208-L, OM1208-8E, OM1208-8E-L</p> <p>2-10-2016</p>	<p>opengear OM1204 Operations Manager [pdf] User Guide OM1204, OM1204-L, OM1204-4E, OM1204-4E-L, OM1208, OM1208-L, OM1208-8E, OM1208-8E-L, OM1204 Operations Manager, OM1204, Operations Manager, Manager</p>

References

-  [Downloads: Software, Firmware, & Custom Development Kits](#)
-  [Product Documentation: Quick Start Guides & User Manuals](#)