

# OM2200 Operations Manager

## Supporting the NetOps Automation Platform

Opengear OM appliances are NetOps Console Servers - Network Management appliances that combine the capabilities of a *SmartOOB™* Console Server with the flexibility of NetOps Automation.

The OM2200 appliance, managed through our Lighthouse software, is configured for data centers and high density locations. Integrated into Opengear's Network Resilience Platform, it provides a separate, secure management plane which supports advanced automation applications.

### Features

- 16, 32, 48 Serial port and 24 Serial/24 Ethernet mixed port models
- Separate platforms optimized for 1GbE and 10 GbE networks
- Global LTE interface (non-cellular optional)
- x86 platform; embedded physical security
- Python runtime, Docker container support



<b>Console Specifications</b>	
Console Ports	<b>OM2216</b> – 16 x RJ45 RS-232 Software Selectable Straight or Rollover Pinout Console Management Ports <b>OM2232</b> – 32 x RJ45 RS-232 Software Selectable Straight or Rollover Pinout Console Management Ports <b>OM2248</b> – 48 x RJ45 RS-232 Software Selectable Straight or Rollover Pinout Console Management Ports <b>OM2224-24E</b> - 24 x Selectable RJ45 RS-232 Ports and 24 x Managed 10/100/1000 Base-T Switched Ethernet Ports
<b>Interfaces</b>	
Primary/Secondary Network Ports	2 x 10/100/1000 Ethernet/SFP Fiber auto-media ports (1GbE chassis) 2 x SFP+ (10G only) Fiber and 1 x 10/100/1000 Base-T Ethernet (10 GbE chassis)
Local Console Ports	1 x micro USB 2.0 Console Port and 1 x RJ45 Serial (Straight Pinout)
Managed Serial Ports	16, 32, or 48 x RJ45 RS-232 Software Selectable 50 to 230,400 bps Console Ports
USB Ports	2 x USB 3.0 Host Ports for storage and 8 x USB 2.0 ports for device console management
Managed Switched Ethernet Ports	24 x managed 10/100/1000 Base-T switched Ethernet Ports (-24E models)
<b>Power Requirements</b>	
Dual AC Power Inputs	Dual IEC 320 Socket Universal 100-240V AC 50/60Hz
Power Consumption	Serial Port models 1.6 A max Mixed Port models 1.6 A max
<b>Cooling</b>	
Passive Cooling - can be forward or reverse mounted to suit best airflow	
<b>Physical Dimensions</b>	
Dimensions	17.25 x 10.25 x 1.75 in, 44 x 26 x 4.5 cm
Weight	3.5 kgs 7.7 lbs.
Form Factor	1 RU
<b>Memory &amp; CPU</b>	
CPU	AMD GX-412TC 1.4 Ghz, 4-core 64-bit x86
Memory	8 GB DDR3 RAM
Boot ROM	16 MB SPI with password protection
Internal Storage	M.2 SATA III 64 GB SSD
Security	Trusted Platform Module 2.0
<b>Environmental</b>	
Operating Temperature	5°C to 50°C, 41°F to 122°F
Storage Temperature	-30°C to +60°C, -22°F to +140°F
Humidity	5% to 90%
<b>Features</b>	
Smart Out-of-Band, Modern CLI/GUI/REST API, IPv4/IPv6 Networking, Serial Port Logging	
<b>Security, Encryption &amp; Authentication</b>	
AAA – TACACS+, RADIUS, Active Directory/OpenLDAP, Kerberos, with local fallback” Embedded Firewall IPSec and OpenVPN	
<b>Automation &amp; Scalability</b>	
Opengear NetOps Modules	Perl and bash support
Docker support	ZTP
Python and Ruby	SNMP-Standard MIBs
<b>Global LTE Cellular Interface</b>	
Modules	<b>OM22xx-L - Sierra Wireless EM7565</b>
Speed	CAT12
Coverage	Global LTE-A Support
<b>Certifications</b>	
Cellular	PTCRB, GCF, Verizon and AT&T
Emissions	EN55032: 2015 Class A
Immunity	EN61000-4-2, -4-3:2006+A1: 2006+A2:2010, -4-4: 2007, -4-5: 2014, -4-6:2008, -4-8: 2009, -4-11: 2010, -4-28: 2010 EN61000-3-2: 2014, EN61000-3-3: 2013
Other Agency Approvals	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 EN60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 100,000 hours
<b>Warranty</b>	4 Years Hardware and Support

# Available Models

Every OM2200 model shares the following features:

- 1 RU form factor
- CPU: 1.4 GHz 4-Core x86
- 8 GB DDR3 RAM
- 64GB Internal Storage
- 2 USB 3.0 and 8 USB 2.0 ports
- RS-232 software selectable straight or rollover pinouts

Managed Ports	Model	Platform	2 x 10/100/1000 Ethernet/SFP Fiber Ports	2 x SFP+ Fiber and 1 x 10/100/1000 Base-T Ethernet Ports	Cellular
16 Serial Port Models	OM2216	1 GbE	Yes		No
	OM2216-L	1 GbE	Yes		Global 4G LTE
32 Serial Port Models	OM2232	1 GbE	Yes		No
	OM2232-L	1 GbE	Yes		Global 4G LTE
48 Serial Port Models	OM2248	1 GbE	Yes		No
	OM2248-L	1 GbE	Yes		Global 4G LTE
	OM2248-10G	10 GbE		Yes	No
	OM2248-10G-L	10 GbE		Yes	Global 4G LTE
24 Serial Ports +24 Ethernet Ports	OM2224-24E	1 GbE	Yes		No
	OM2224-24E-L	1 GbE	Yes		Global 4G LTE
	OM2224-24E-10G	10 GbE		Yes	No
	OM2224-24E-10G-L	10 GbE		Yes	Global 4G LTE

Available country codes for power cords: -US, -AU, -UK, -EU, -JP

\* Append the model number above with the destination country, e.g. "OM2224-24E-L-US" for USA.

## Package Checklist

- Operations Manager OM2200
- 2 x Country-specific A/C Power Cords
- 1 x Rack Mount Kit (590037)
- 1 x CAT5 Cable 6'
- 1 x DB9F – RJ45 Crossover (319015)
- Start-Up / Safety Instructions Card

### Cellular Enabled Models Also Include:

- 2 x Cellular Antennas (569041)
- 1 x Cellular Antenna Extender with magnetic base (449041)

## Optional Accessories

	Part Number	Description
Adapters	319014	Adapter - DB9F to RJ45 straight serial - DCE -For X2 Pinout
	319015	Adapter - DB9F to RJ45 crossover serial - DTE -For X2 Pinout
	319016	Adapter - DB9M to RJ45 straight serial - DCE - For X2 Pinout
	440016	Cable - Straight through CAT5 - 6' length
Mounting	590037	Rack Mount Kit - Ears and Screws
Cellular / GPS Antenna	449041	Antenna Extender - Magnetic Base with 10' Cable
	569041	Antenna - Blade LTE-A with swivel base

## Warranty

Part Number	Description
Included	4 year Standard Warranty
OGEXTWAR5-OM22	Warranty OM2200 (Extends to 5th year warranty)
OGEXTWAR6-OM22	Warranty OM2200 (Extends to 6th year warranty)