

# OM2200 Operations Manager

with Smart Out-of-Band Management



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.

- 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)
- PSTN modem with select models
- x86 platform; embedded physical security
- Python runtime, Docker container support



## Console Specifications

OM2216	16 x RJ45 RS-232 Software Selectable Straight or Rollover Pinout Console Management Ports
OM2232	32 x RJ45 RS-232 Software Selectable Straight or Rollover Pinout Console Management Ports
OM2248	48 x RJ45 RS-232 Software Selectable Straight or Rollover Pinout Console Management Ports
OM2248-10G-M-L	48 x RJ45 RS-232 Software Selectable Straight or Rollover Pinout Console Management Ports, PSTN Modem
OM2224-24E	24 x Selectable RJ45 RS-232 Ports and 24 x Managed 10/100/1000 Base-T Switched Ethernet Ports

## Interfaces

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
PSTN Modem (OM2248-10G-M-L only)	1 x Internal V.92 modem with RJ11 Socket
USB Ports	2 x USB 3.0 Host Ports for storage and 8 x USB 2.0 ports for device console management
Managed Switch Ethernet Ports	24 x managed 10/100/1000 Base-T switched Ethernet Ports (-24E models)



## Power Requirements

Dual AC Power Inputs	Dual IEC 60320 Socket Universal 100-240V AC 50/60Hz and IEC C14 side connectors
Dual DC Power Inputs	+/- 40V to 72V DC, 1.5A-0.75A (X 2), 48V Nominal
Power Consumption	Serial Port models 1.6 A max Mixed Port models 1.6 A max

## Physical Dimensions

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	1RU

## Memory and CPU

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

## Environmental

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%
Cooling	Passive Cooling - can be forward or reverse mounted to suit best airflow

## Security, Encryption & Authentication

- Trusted Platform Module 2.0
- AAA - TACACS+, RADIUS, Active Directory/OpenLDAP, Kerberos, with local fallback
- Embedded Firewall
- IPSec and OpenVPN

## Automation & Scalability

- Opendgear NetOps Modules
- Docker support
- Python
- Perl and bash support
- ZTP
- SNMP-Standard MIBs



## Global LTE Cellular Interface

Modules	OM22xx-L - Sierra Wireless EM7565
Speed	CAT12
Coverage	Global LTE-A Support

## Certifications

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	EC 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

## Warranty

4 Years hardware and support

## Available Models

Every OM2200 model shares the following features:

- 1 RU form factor
- 1.4 GHz 4-Core x86 CPU
- 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

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

Available country codes for power cords: -US, -AU, -UK, -EU, -JP. Append model number with 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
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
590037	Rack Mount Kit - Ears and Screws
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)