

# CM8000 Console Manager

## with Smart Out-of-Band Management



The compact CM8000 console manager is purpose-built for secure Out-of-Band Management in locations with a small number of serial devices or limited rack space. Combined with Lighthouse for centralized visibility and control, it provides dependable access to power, sensors, and critical infrastructure when it matters most.

- Managed networking with VLAN and Routing support
- IP based device management with *Smart OOB™*
- ARM v8 platform supporting Python, Docker, Ansible
- 4 or 8 port Serial Console Management
- TPM 2.0 embedded physical security



### Console Specifications

- |              |                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serial Ports | <ul style="list-style-type: none"><li>• <b>CM8004:</b> 4 x RJ45 RS232 Cisco straight X2 pinout serial ports</li><li>• <b>CM8008:</b> 8 x RJ45 RS232 Cisco straight X2 pinout serial ports</li></ul> |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Interfaces

- |                      |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Ports        | 2 x combo ports - RJ45 100BASE-TX/1000 BASE-T or SFP                                                                                                                                                                                                                                                                                                                                     |
| Local Console Port   | 1 x USB-C Console Port - X2 Pinout, default baud rate 9600/8N1                                                                                                                                                                                                                                                                                                                           |
| Managed Serial Ports | RJ45 RS-232 X2 Pinout 50 to 115,200 bps                                                                                                                                                                                                                                                                                                                                                  |
| USB Ports            | 2 x USB 3.0 ports (for mass-storage, device console management)                                                                                                                                                                                                                                                                                                                          |
| Remote Access        | Dual Ethernet, aggregation & redundancy, Automatic Network Failover, Easy browser UI, IPv6                                                                                                                                                                                                                                                                                               |
| Console Management   | <ul style="list-style-type: none"><li>• Local WebUI has built-in web terminal for CLI access</li><li>• IP alias for serial port console connections</li><li>• Support for console event and keystroke logging</li><li>• Alert on text pattern match</li><li>• Multiple concurrent sessions</li><li>• Centralized access to all serial managed devices from Lighthouse software</li></ul> |

### Power Requirements

- |             |                                                   |
|-------------|---------------------------------------------------|
| Power Input | Dual Power inputs, second available as redundancy |
|-------------|---------------------------------------------------|

## Power Requirements

|                   |                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------|
| Power Adapter     | 1x Universal 110-240V AC to 12V DC external power adapter IEC 62368, UL, CB, DoE, VI, PSE, LPS certified |
| Power Consumption | Less than 24W (82 BTU/h)                                                                                 |
| Cooling           | Passive Cooling - can be forward or reverse mounted                                                      |

## Physical Dimensions

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Dimensions and Weight | 8.66" x 7" x 1.75" - 2.7 lbs, 220 x 177 x 44 mm - 1.25 kg |
| Form Factor           | Compact - SFF 1RU half-rack width                         |

## Memory and CPU

|         |                                      |
|---------|--------------------------------------|
| CPU     | 1.6 GHz Quad-Core ARM Cortex-A53 SoC |
| Memory  | 4GB LPDDR4 SDRAM                     |
| Storage | 32GB eMMC                            |

## 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% (non-condensing)      |
| Environmental Monitoring | Built-in temperature sensor     |

## Security, Encryption & Authentication

- TACACS+, RADIUS, Active Directory/OpenLDAP, with local fallback
- IPsec and OpenVPN
- FIPS 140-2 compliant
- Trusted Platform Module 2.0

## Automation & Scalability

- ZTP
- Ansible
- API based OS
- Docker support
- Python and Ruby
- SNMP-Standard MIBs

| Certifications         |                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety                 | IEC 62368-1:2023                                                                                                                                                |
| Emissions              | 47 CFR Parts: 15B, ICES-003 Issue 7, EN55032:2015+A11:2020, EN 301 489-1:2019 v.2.2.3                                                                           |
| Immunity               | EN 301 489-52:2021 v.1.2.1, EN55035:2017+A11:2020, IEC 61000-3-2:2018+A2:2024, EN 61000-3-2:2019+A2:2024, IEC 61000-3-3:2013+A2:2021, EN 61000-3-3:2013+A2:2021 |
| RoHS                   | EN 63000:2018                                                                                                                                                   |
| Other Agency Approvals | KS C 9832:2019, KS C 9835:2019, AS/NZ CISPR 32:2015, VCCI-CISPR 32:2016, CNS 15936:2016                                                                         |
| Warranty               |                                                                                                                                                                 |

5 years hardware replacement included. Appliance requires a minimum of 1 year Foundation Support at the time of purchase.

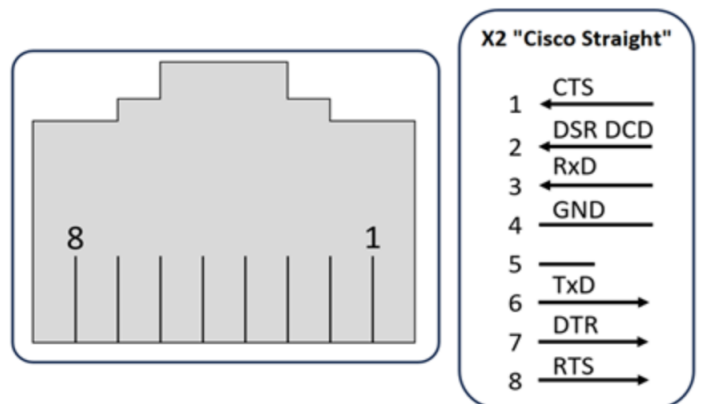
## Available Models

| Model  | Description                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------|
| CM8008 | 8 x RS232 RJ45 serial X2 Pinout, 2x 1GbE SFP, 2x 1GbE, ARM 1.6GHz 4-core, 4GB LPDDR4, 32GB flash, TPM 2.0, Single AC |
| CM8004 | 4 x RS232 RJ45 serial X2 Pinout, 2x 1GbE SFP, 2x 1GbE, ARM 1.6GHz 4-core, 4GB LPDDR4, 32GB flash, TPM 2.0, Single AC |

## Package Checklist

- Console Server CM800x
- Rack Mount Kit (Part# 590054)
- C14 Power Cable (Part# 440055)
- A/C Power Brick (Part# 450048)

## Opengear Pinout



## 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                                         |
| 440081      | Cable Ethernet CAT6 High Temperature - 5' length                                                    |
| 590054      | Rack Mount Kit - Ears and Screw                                                                     |
| 590059      | Rack Tray Kit - Convert to 1RU full-rack width                                                      |
| 450045      | External 60W DC Power Supply, 18-72V DC Universal input, 12V DC output barrel connector - IEC 62368 |
| 450048      | External 65W AC Power Adapter, IEC-C14 inlet, 12V DC output barrel connector - IEC 62368            |

## Warranty

| Part Number                                                       | Description                                                                           |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Included                                                          | 5 year standard warranty                                                              |
| <b>Select one of the following to include with the appliance:</b> |                                                                                       |
| OG-FNTS-CM8000-1YR                                                | 1 year Foundation Support for CM8000 - 8x5 Regional Support with Advanced Replacement |
| OG-FNTS-CM8000-2YR                                                | 2 year Foundation Support for CM8000 - 8x5 Regional Support with Advanced Replacement |
| OG-FNTS-CM8000-3YR                                                | 3 year Foundation Support for CM8000 - 8x5 Regional Support with Advanced Replacement |
| OG-FNTS-CM8000-5YR                                                | 5 year Foundation Support for CM8000 - 8x5 Regional Support with Advanced Replacement |
| OG-FNTS-CM8000-7YR                                                | 7 year Foundation Support for CM8000 - 8x5 Regional Support with Advanced Replacement |
| OG-PRTS-1YR                                                       | 1 year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements   |
| OG-PRTS-2YR                                                       | 2 year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements   |
| OG-PRTS-3YR                                                       | 3 year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements   |

| Part Number | Description                                                                         |
|-------------|-------------------------------------------------------------------------------------|
| OG-PRTS-5YR | 5 year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements |
| OG-PRTS-7YR | 7 year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements |