

# CM8100 High Density Console Server with *Smart* Out-of-Band Management



## Features

- 16, 32 or 48 port serial console server with *Smart* OOB™
- Ideal replacement for legacy terminal servers
- Enables Data Center automation with Python and Docker support
- Embedded physical security using TPM 2.0 module
- Dual power supplies with independent monitoring
- Integrated environmental temperature monitoring



Console Specifications	
Serial ports	CM81xx - 16, 32 or 48 x RJ45 RS-232 Cisco straight X2 pinout
Interface	
Ethernet Ports	2 x 10/100/1000 Ethernet port with 1500V AC Isolation and ESD Protection
Console Port	1 x RJ45 RS-232 Console Port - Cisco rolled X1 pinout, baud rate 9600
Serial Ports	Cisco straight X2 Pinout 50 to 230,400bps, Provides direct connection to device console ports, no adapters needed
USB	2 x USB 3.0 host ports, Can be used for external storage or to manage device console ports
Remote Access	Dual Ethernet, aggregation & redundancy, automatic network failover, easy web browser UI IPv6
Console Management	
Built-in web terminal	Alert on cable disconnects, text pattern match and more
SSH direct to consoles	Multiple concurrent sessions
Optional console keystroke logging	
Power Requirements	
Dual AC	Dual socket universal IEC C14 inlet 100-240V AC
Power Consumption	Less than 15 W (51 BTU/h) typical
Cooling	Passive Cooling - can be forward or reverse mounted to suit best airflow
Physical Dimensions	
Dimensions and Weight	CM8100 - 16-48 ports 17.3" x 9.25" x 1.75" – 9.5 lbs, 440 x 235 x 44 mm – 4.5 kg
Form Factor	1 RU
Memory & CPU	
CPU	1.6 GHz Dual-Core ARM Cortex-A9 SoC (Marvell 88F6820)
Memory	2GB DDR4 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	
	AAA – TACACS+, RADIUS, Active Directory/OpenLDAP, with local fallback Embedded Firewall IPSec and OpenVPN Trusted Platform Module 2.0
Automation & Scalability	
	Opengear NetOps Modules Docker support Python and Ruby
	Perl and bash support ZTP SNMP-Standard MIBs
Certifications	
Emissions	FCC Part 15 Subpart B:2021 Class A ICES-003 Issue 7 AS/NZS CISPR 32:2015 EN 55035:2017
	EN 55032:2017 VCCI-CISPR 32:2016 CNS 13438:2006-6
Immunity	EN 61000-3-2:2019 IEC 61000-3-2:2018 EN/IEC 61000-3-3:2013 EN 61000-4-2:2009
	IEC 61000-4-2:2008 EN 61000-4-3:2006 + A1:2008 + A2:2010 IEC 61000-4-3:2006 + A1:2007 + A2:2010 EN/IEC 61000-4-4:2012
	IEC 61000-4-8:2009 EN/IEC 61000-4-11:2004
Other Agency Approvals	CE, IEC 1950, IEC 62368, RoHS compliant.
MTBF	150,000 Hours
Warranty	4 Years hardware and support included. Optional paid extended warranty available up to 6 years.



## Available Models

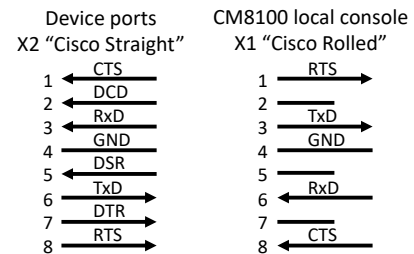
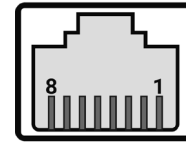
Model	Description
CM8116	Model CM8116, 16 serial straight pinout, 2x 1GbE, ARM 1.6GHz 2-core 2GB mem 32GB flash TPM, NetOps, Dual AC
CM8132	Model CM8132, 32 serial straight pinout, 2x 1GbE, ARM 1.6GHz 2-core 2GB mem 32GB flash TPM, NetOps, Dual AC
CM8148	Model CM8148, 48 serial straight pinout, 2x 1GbE, ARM 1.6GHz 2-core 2GB mem 32GB flash TPM, NetOps, Dual AC

- Available country codes: **-US, -AU, -UK, -EU, -JP**
  - Append model number with destination country, e.g. "CM8116-US" for USA

## Package Checklist

- Console Server CM81xx
- Rack Mount Kit (Part# 590037)
- Two rack ears with six M4 screws
- Four M5mm caged nuts
- Four M5x15mm rack screws
- One CAT5 Patch Cable 6'
- One DB9F-RJ45 rollover serial adapter (Part# 319018)
- Two A/C Power cables
- Quick Start Guide
- Lighthouse insert

## Opengear Pinout



## 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

## Warranty

Part Number	Description
Included	4 year Standard Warranty
OGEXTWAR5-CM81	Warranty – CM81xx (Extend warranty through 5th year)
OGEXTWAR6-CM81	Warranty – CM81xx (Extend warranty through 6th year, must also purchase 5th year)