

CM7100 High Density Console Server

With Smart OOB™



Features

- Ideal replacement for legacy terminal servers
- Smart OOB is the next generation of remote management
- Cost effective and best value per port for console management
- Up to 96 Ports in 1 RU form factor
- Save money, reduce complexity for efficient operations
- Hyperscale, Automation, ZTP, RESTful API and Lighthouse
- Scalable and easily integrated with your network environment and tools



Console Specifications	
Console Ports	CM71xx – 16 – 48 x RJ45 RS-232 Cisco Straight Pinout CM7196A – 96 x RJ45 RS-232 Cisco Straight Pinout
Interface	
Ethernet Ports	CM71xx - 2 x 10/100/1000 Ethernet port with 1500V AC Isolation and ESD Protection CM7196A - 2 x 10/100/1000 Ethernet/SFP Fiber port with 1500V AC Isolation and ESD Protection
Console Port	1 x RJ45 RS-232 Console Port
Serial Ports	Cisco Straight Pinout 50 to 230,400bps
USB	2 x USB 2.0 ports for increased storage
Remote Access	Dual Ethernet, aggregation & redundancy, Automatic Network Failover, Easy browser UI IPv6
Console Management	Built-in web terminal SSH direct to consoles Optional console keystroke logging Alert on cable disconnects, text pattern match and more Inline power control Multiple concurrent sessions
Power Requirements	
Dual AC	Dual socket universal 100-240V AC
Single AC	Single socket universal 100-240V AC
Power Consumption	20W to 25W
Physical Dimensions	
Dimensions and Weight	17 x 6.9 x 1.75 in – 9 lbs, 44 x 17.5 x 4.5 cm – 4.0 kg
Form Factor	1 RU
Memory & CPU	
CPU	800 MHz Armada 370 ARMv7 SoC (Marvell 88F6W11)
Memory	CM71xx - 256 MB DDR3 SDRAM CM7196A – 2 GB DDR3 SDRAM 32 MB Embedded NOR Flash
Internal Storage	CM71xx - 4 GB Memory CM7196A - 64 GB Memory
Environmental	
Operating Temperature	5°C to 50°C, 41°F to 122°F
Storage Temperature	-30°C to +60°C, -20°F to +140°F
Humidity	5% to 90%
Environmental Monitoring	Physical monitoring, Smoke, Water Leak, Vibration
Security, Encryption & Authentication	
	SSH FIPS-140-2 compliant Open SSL Module Strong ciphers - AES encryption Cisco-compatible IPsec
	AAA – TACACS+, RADIUS, Active Directory/OpenLDAP, Kerberos, with local fallback Two factor authentication via remote AAA Configurable stateful firewall OpenVPN
Automation & Scalability	
Features	ZTP, Lighthouse RESTful API, programmable and extensible Auto-Response, SNMP, LLDP, NTP
Certifications	
Emissions	FCC Part 15 Subpart B Class A ICES-003 Issue 4 February 2004 AS/NZS CISPR 22: 2004 Class A EN 55022 Emissions Class A (2009) A1 (2010)
	EN 55022 Emissions Class A (2009) A1 (2010) EN 55024 ITE Immunity (2010) EN 61000-3-2 Harmonics Current Emissions (2014) EN 61000-3-3 Voltage Fluctuation and Flicker (2013)
Immunity	EN 55024 ITE Immunity (2010) IEC 61000-4-2 (2008) IEC 61000-4-3 (2006) A1 (2007) A2 (2010) IEC 61000-4-4 (2012)
	IEC 61000-4-5 (2014) IEC 61000-4-6 (2013) IEC 61000-4-8 (2009) IEC 61000-4-11 (2004)
Other Agency Approvals	CE, UL 1950, TUV, C-Tick, RoHS compliant, Security features to support NERC CIP standards, FIPS 140-2 validated module Certificate #2473, CCC
MTBF	CM71xx-DAC Dual AC: 150,000 Hours CM71xx-SAC Single AC: 100,000 Hours
Warranty	4 Years hardware and support



Available Models

	Model	Description
Single AC	CM7116-2-SAC	16 x RS-232 RJ45 serial
	CM7148-2-SAC	48 x RS-232 RJ45 serial
Dual AC	CM7116-2-DAC	16 x RS-232 RJ45 serial
	CM7132-2-DAC	32 x RS-232 RJ45 serial
	CM7148-2-DAC	48 x RS-232 RJ45 serial
High Density	CM7196A-2-DAC	96 x RS-232 RJ45 serial

- Available country codes: **-US, -AU, -UK, -EU, -JP, -CN**
 - Append model number with destination country, e.g. "CM7116-2-DAC-US" for USA
 - -CN model is not available for CM7196A-2-DAC

Package Checklist

- Console Server CM71xx or CM7196A-2-DAC
- Rack Mount Kit – Two ears and screws (Part# 590001)
- Dual A/C Power cords
- 2 x CAT5 Patch Cable 6'
- Cable Kit - 319014 DB9F-RJ45 Straight, 319015 DB9F-RJ45 Crossover, 319016 DB9M-RJ45 Straight, Loopback test cable
- Quick Start Guide

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
Environmental	EMD5000-02	Environmental Monitoring Device - X2 Pinout
	EMD5781-10	Door contact sensor - 10' Cable length
	EMD5782	Vibration sensor - 3' Cable length
	EMD5779-QA	Smoke detector/alarm (220V AC, IEC C-13)
	EMD5890-QA	Smoke detector/alarm (110V AC, NEMA 5-15)
	EMD5780	Water leak detector - 3' Cable length
	590001	Rack Mount Kit - Ears and Screws - CM7100 / IM4200 / IM7200

Warranty

Part Number	Description
Included	4 year Standard Warranty
OGEXTWAR-CM71	Warranty – CM7xxx and CM7196A (Extended 1 year warranty)