CM7100 High Density Console Server

with Smart Out-of-Band Management

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	

Interfaces		
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 230,400 bps	
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

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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 and 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, -22°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		
	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 61000-3-2 Harmonics Current

Certifications		
	EN 55022 Emissions Class A (2009) A1 (2010)	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	Cellular
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
	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 models are not available for CM7196A-2-DAC

Package Checklist

- Console Server CM71xx or CM7196A-2-DAC
- Rack Mount Kit - Two ears and screws (Part# 590001)
- A/C Power cords: 1 for Single AC (SAC), 2 for Dual AC (DAC)
- 1 x CAT5 Patch Cable 6'
- Cable Kit
  - 319015 DB9F-RJ45 Crossover
- 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
Environmental	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
Mounting	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)