IM7200 Infrastructure Manager

With *Smart* OOB™ and Failover to Cellular™

Features

- *Smart* OOB with embedded cellular
- Flexible Connectivity – embedded cellular, PSTN, redundant ethernet/fiber and WiFi
- Additional models with 24 Port switch and 24 Port USB Console
- Simple cabling with software selectable Pin-outs
- Hyperscale, Automation ZTP, API, Lighthouse
- Powerful hardware with integrated 16 GB internal storage

Console Specifications		
Console Ports	**IM72xx** – 8 – 48 x RJ45 RS-232 Software Selectable Console Ports **IM7216-24U** –16 x RJ45 RS-232 Software Selectable Console Ports and 24 USB Console Ports **IM7216-24E** – 16 x RJ45 RS-232 Software Selectable Console Ports and 24 Port Gigabit Switch	
Interface		
Ethernet Ports	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	
WiFi	802.11 a/b/g/n, AP or Client mode, Infrastructure or AD-hoc WEP, WPA-PSK, WPA2-PSK, WPA-None, WPA-PEAP-MSCHAPv2 Encryption: TKIP, AES Certified MIC-R and MIC-T	
PSTN Modem	1 x Internal V.92 modem with RJ11 Socket	
Serial Ports	Software Selectable 50 to 230,400 bps	
USB	2 x USB 3.0 console ports	
Remote Access	Integrated 4G LTE Cellular Card, Integrated V.92 PSTN Dial-in, 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	
Dual DC	+/- 36V to 72V DC	
Power Consumption	Less than 15W	
Physical Dimensions		
Dimensions and Weight	17 x 10 x 1.75 in – 10 lbs., 44 x 25.4 x 4.5 cm – 4.5 kg	
Form Factor	1 RU	
Memory & CPU		
CPU	1 GHz ARM SoC (Marvell 88F6283)	
Memory	256 MB DDR2 SDRAM 64 MB Embedded NOR Flash	
Internal Storage	16 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	Serial EMD5000 to support physical, smoke, water leak and vibration sensors	
Security, Encryption & Authentication		
	SSH FIPS-140-2 compliant Open SSL Module Strong ciphers -AES encryption Cisco-compatible IPsec OpenVPN	AAA – TACACS+, RADIUS, Active Directory/OpenLDAP, Kerberos, with local fallback Two factor authentication via remote AAA Configurable stateful firewall Actively developed & support and security notifications-frequent firmware updates
Automation & Scalability		
	ZTP, Lighthouse RESTful API, programmable and extensible Auto-Response, SNMP, LLDP, NTP	
Cellular		
Modules	**IM72xx-LR** – Sierra Wireless MC7304 | **IM72xx-LMx** Sierra Wireless MC7354 | **IM72xx-LMP** – Sierra Wireless MC7430	
Cellular Certification	AT&T and Verizon Certified MIC-R and MIC-T Certified Japanese carriers PTCRB, NAPRD.03, GCF-CC, R&TTE, EN 301 511, A-Tick (GSM/UMTS) CDG TIA/EIA-690, CDG TIA/EIA-98-E (CDMA/EV-DO)	
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 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	100,000 hours	
Warranty	4 Years hardware and Support	

Available Models

	Model	Cellular		Model	Cellular
8 Port Dual AC Models	IM7208-2-DAC	No	**32 Port Dual AC Models**	IM7232-2DAC	No
	IM7208-2-DAC-LMA	Multicarrier AT&T		IM7232-2-DAC-LMA	Multicarrier AT&T
	IM7208-2-DAC-LMCT	Multicarrier Telus Canada		IM7232-2-DAC-LMCT	Multicarrier Telus Canada
	IM7208-2-DAC-LMCB	Multicarrier Bell Canada		IM7232-2-DAC-LMCB	Multicarrier Bell Canada
	IM7208-2-DAC-LMCR	Multicarrier Rogers Canada		IM7232-2-DAC-LMCR	Multicarrier Rogers Canada
	IM7208-2-DAC-LMV	Multicarrier Verizon		IM7232-2-DAC-LMV	Multicarrier Verizon
	IM7208-2-DAC-LMP	Multicarrier APAC		IM7232-2-DAC-LMP	Multicarrier APAC
	IM7208-2-DAC-LR	Multicarrier Rest of World		IM7232-2-DAC-LR	Multicarrier Rest of World
8 Port Dual DC Models	IM7208-2-DDC	No	**32 Port Dual DC Models**	IM7232-2-DDC	No
	IM7208-2-DDC-LMA	Multicarrier AT&T		IM7232-2-DDC-LMA	Multicarrier AT&T
	IM7208-2-DDC-LMCT	Multicarrier Telus Canada		IM7232-2-DDC-LMCT	Multicarrier Telus Canada
	IM7208-2-DDC-LMCB	Multicarrier Bell Canada		IM7232-2-DDC-LMCB	Multicarrier Bell Canada
	IM7208-2-DDC-LMCR	Multicarrier Rogers Canad		IM7232-2-DDC-LMCR	Multicarrier Rogers Canada
	IM7208-2-DDC-LMV	Multicarrier Verizon		IM7232-2-DDC-LMV	Multicarrier Verizon
	IM7208-2-DDC-LMP	Multicarrier APAC		IM7232-2-DDC-LMP	Multicarrier APAC
	IM7208-2-DDC-LR	Multicarrier Rest of World		IM7232-2-DDC-LR	Multicarrier Rest of World
16 Port Dual AC Models	IM7216-2-DAC-US	No	**48 Port Dual AC Models**	IM7248-2-DAC-US	No
	IM7216-2-DAC-LMA	Multicarrier AT&T		IM7248-2-DAC-LMA	Multicarrier AT&T
	IM7216-2-DAC-LMCT	Multicarrier Telus Canada		IM7248-2-DAC-LMCT	Multicarrier Telus Canada
	IM7216-2-DAC-LMCB	Multicarrier Bell Canada		IM7248-2-DAC-LMCB	Multicarrier Bell Canada
	IM7216-2-DAC-LMCR	Multicarrier Rogers Canada		IM7248-2-DAC-LMCR	Multicarrier Rogers Canada
	IM7216-2-DAC-LMV	Multicarrier Verizon		IM7248-2-DAC-LMV	Multicarrier Verizon
	IM7216-2-DAC-LMP	Multicarrier APAC		IM7248-2-DAC-LMP	Multicarrier APAC
	IM7216-2-DAC-LR-US	Multicarrier Rest of World		IM7248-2-DAC-LR	Multicarrier Rest of World
16 Port Dual DC Models	IM7216-2-DDC	No	**48 Port Dual DC Models**	IM7248-2-DDC	No
	IM7216-2-DDC-LMA	Multicarrier AT&T		IM7248-2-DDC-LMA	Multicarrier AT&T
	IM7216-2-DDC-LMCT	Multicarrier Telus Canada		IM7248-2-DDC-LMCT	Multicarrier Telus Canada
	IM7216-2-DDC-LMCB	Multicarrier Bell Canada		IM7248-2-DDC-LMCB	Multicarrier Bell Canada
	IM7216-2-DDC-LMCR	Multicarrier Rogers Canada		IM7248-2-DDC-LMCR	Multicarrier Rogers Canada
	IM7216-2-DDC-LMV	Multicarrier Verizon		IM7248-2-DDC-LMV	Multicarrier Verizon
	IM7216-2-DDC-LMP	Multicarrier APAC		IM7248-2-DDC-LMP	Multicarrier APAC
	IM7216-2-DDC-LR	Multicarrier Rest of World		IM7248-2-DDC-LR	Multicarrier Rest of World
16 Port + 24 Port Gigabit Switch Dual AC Models	IM7216-2-24E-DAC	No	**16 Port + 24 Console USB Dual AC Models**	IM7216-2-24U-DAC	No
	IM7216-2-24E-DAC-LMA	Multicarrier AT&T		IM7216-2-24U-DAC-LMA	Multicarrier AT&T
	IM7216-2-24E-DAC-LMV	Multicarrier Verizon		IM7216-2-24U-DAC-LMV	Multicarrier Verizon
	IM7216-2-24E-DAC-LMP	Multicarrier APAC		IM7216-2-24U-DAC-LMP	Multicarrier APAC
	IM7216-2-24E-DAC-LR	Multicarrier Rest of World		IM7216-2-24U-DAC-LR	Multicarrier Rest of World
16 Port + 24 Port Gigabit Switch Dual DC Models	IM7216-2-24E-DDC	No			
	IM7216-2-24E-DDC-LMA	Multicarrier AT&T			
	IM7216-2-24E-DDC-LMV	Multicarrier Verizon			

Available country codes: **-US, -AU, -UK, -EU, -JP, -CN**

- Append model number with destination country, e.g. “IM7216-2-DAC-US” for USA.
- -CN models are not available with cellular and do not have WiFi. 24 Port Console USB and 24 Port Gigabit switch models are not

Package Checklist

- Infrastructure Manager IM7200
- Rack Mount Kit – Two ears and screws (Part# 590001)
- Power cords for AC models only
- 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
Mounting	590001	Rack Mount Kit - Ears and Screws - CM7100 / IM4200 / IM7200

Warranty

Part Number	Description
Included	4 year Standard Warranty
OGEXTWAR5-IM72	Warranty IM7200 (Extends to 5th year warranty)
OGEXTWAR6-IM72	Warranty IM7200 (Extends to 6th year warranty)