

IM7200 Infrastructure Manager

With Smart OOB and Failover to Cellular



Features

- Smart OOB™ with embedded cellular
- Failover to Cellular™
- Flexible Connectivity – embedded cellular, PSTN, and redundant ethernet/fiber
- 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 | |
| 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 | |
| Power Monitoring | DDC (all models), DAC (models shipped after June 1, 2019) | |
| 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, -22°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 5 (2014) AS/NZS CISPR 22: 200410 (Class A) | EN 55032:2015 (Class A) 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 (2014) IEC 61000-4-8 (2010) IEC 61000-4-11 (2004) |
| Other Agency Approvals | IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, C-Tick 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 | IM7232-2-DAC | 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 Canada | | 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 | No | 48 Port Dual AC Models | IM7248-2-DAC | 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 | 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 Port 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-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.

Package Checklist

- Infrastructure Manager IM72xx
- Rack Mount Kit – Two ears and screws (Part# 590001)
- 1 x Cisco Straight DB9F-RJ45 Adapter (Part# 319015)
- 1 x CAT5 Patch Cable 5' (Part# 440016)
- Quick Start Guide
- 2 x Country Specific A/C Power cords (DDC models do not come with power cords)

Cellular Enabled Models Also Include:

- 2 x Cellular antennas (Part# 569028)
- 1 x Cellular Antenna extender with magnetic Base (Part# 449041)

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) |
| Mounting | 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 |
| OGEXTWAR5-IM72 | Warranty IM7200 (Extends to 5th year warranty) |
| OGEXTWAR6-IM72 | Warranty IM7200 (Extends to 6th year warranty) |