

IM7200 Infrastructure Manager with Smart OOB™ and Failover to Cellular™



The Opengear IM7200 is a state of the art infrastructure management solution which streamlines management of network, power and server infrastructure in data center and remote environments, ensuring business continuity, secure and reliable network access, monitoring and control for local and remote operations teams.

Problem: Data centers, colocation facilities and network exchange points host a wide array of critical infrastructure from a variety of vendors. The challenge and complexity of managing these environments securely and efficiently, and keeping the network connections up and running, continues to grow. For most organizations today, this infrastructure is fundamental to doing business and downtime costs are staggering.

Solution: Opengear next generation IM7200 combines *Smart OOB™* out-of-band management with Failover to Cellular™ and delivers proactive monitoring and remediation, even during network outages. The result for the customer is minimized disruption and downtime. IM7200 solutions are deployed where they are most effective — alongside critical IT and communications infrastructure, to keep networks up and businesses running.

Console management raised to a new level with *Smart OOB™*

IM7200 extends beyond traditional out-of-band management. Proactively detect faults before they become failures. Monitor and log systems health and the physical environmental conditions for audit trail and forensics. Monitor and control UPS and power status. Alert operators and undertake per-set complex actions depending on what is detected. Bullet proof infrastructure management with integrated 8 – 48 port console server. Software selectable pinouts, no adapters. Gain immediate access to consoles via your preferred SSH client or integrated HTTPS AJAX web terminal. *Smart OOB™* enables remote setup, ongoing maintenance and disaster recovery of mission-critical IT, power and network infrastructure, even when the network is down.

Failover to Cellular™ and end to end wireless connectivity

Out-of-band 4G LTE connections to remote infrastructure enable wireless management visibility to critical infrastructure. Wireless local management (Wi-Fi) provides connectivity to environmental and power elements around the data center. Embedded Wi-Fi and 4G LTE connections provide wireless technician access and complete independence from infrastructure faults. When things go wrong with the primary network connection, Failover to Cellular™ automatically restores site connectivity using high-speed 4G LTE. This transparent automatic failover and failback integrates seamlessly with existing IT systems and network infrastructure, ensuring uninterrupted availability for remote networks. No manual intervention.

Future proof infrastructure

Purpose built IM7200 is the next generation smart solution for managing critical IT and communications infrastructure. Embedded fiber ports allow for easy integration into environments without copper availability between rooms and rows. Integrated high-speed 4G LTE connections improve time to resolution and provide always-available access, remote setup, ongoing maintenance and control, and disaster recovery. The unique combination of *Smart OOB™* out-of-band access and Failover to Cellular™ embeds intelligence at the network edge to strengthen network resilience and prevent failures.

State of the art solution

- 8 – 48 port serial console server, manage network and server consoles
- Dual network connections with built-in Fiber SFPs ports and GbE copper
- PSTN, and optional 4G LTE cellular module for remote *Smart OOB™* access during primary outage
- Failover to Cellular™ for network continuity when primary Internet connection is unavailable
- Embedded 802.11 a/b/g/n Wi-Fi
- Software selectable serial pinouts
- Enterprise-grade security, FIPS 140-2 validated encryption
- AAA including LDAPS & TACACS+, lock down ports per-user & group
- Audit trail logging to 16GB local storage or remote log server, expandable with SD card
- 1Ghz processor drives a platform more powerful than any competitor



Complete infrastructure management in one box. Minimizes disruption and delivers always-on resilient connectivity.

Infrastructure Management Benefits

- **Minimize MTTR and increase MTBF.** Proactive problem identification, quick notification and automated remediation reduce operating and downtime costs
- **Ensure uninterrupted availability.** Transparent automatic failover and always-on *Smart OOB™* access keep the business up and running
- **Understand everything that affects uptime.** Monitor and control virtually everything, including the physical environment, prevent disruptions
- **Increase efficiency and reduce human error.** Equip every rack with virtual remote hands in lights-out data centers and colocation cages
- **Leverage existing tools and workflow.** Integrates with standard management tools and existing infrastructure

Who can most benefit from IM7200 infrastructure management?

- Retail Chains
- Hosting and Cloud Providers
- Internet Service Providers
- Telco and Cellco
- Colocation Tenants
- Education and Research
- Finance and Insurance
- Enterprise Campus and MAN

Key Management Features

Comprehensive out-of-band with **Smart OOB™**

Maintain complete control during infrastructure fault conditions and network outages with serial, Ethernet and USB connectivity to critical infrastructure management consoles. Built-in dial-in and 4G LTE cellular modem provides secure alternate path for troubleshooting and repair.

Strong security and authentication

Lock down management interfaces with local and remote AAA including Active Directory, Kerberos, TACACS+ and RADIUS with RSA SecurID. Encrypt sensitive management traffic with IPsec and OpenVPN. Comprehensive logging features for compliance and audit trail. FIPS 140-2 validated encryption for government and military applications.

Vendor-neutral power management

Monitor UPS battery status, automate routine maintenance and load testing. Control PDU outlets via serial, USB and Ethernet. Enforce remote power permissions and map managed consoles to outlets, minimize MTTR with out-of-band power control. Uniquely supports over 100 power vendors' equipment.

Integrates into any environment

Seamlessly fits into top-of-rack & end-of-row fiber configurations, or all copper environments. Integration of connection methods provides a total solution which extends your serial devices over a fiber network including long distances in metro area networks and campus environments. All-in-one solution eliminates the need for installation and management of other devices such as media converters.

Infrastructure management that scales

Extend IM7200 with Opengear Lighthouse central management to connect with up to 5,000 Opengear appliances from a single pane of glass.



Technical Specifications

Power

Less than 30W consumption

Dimensions

17 x 10 x 1.75 in - 10 lbs
44 x 25.4 x 4.5 cm - 4.5 kg

CPU & Storage

1GHz ARM SoC, 16GB internal flash
expandable with SD card

Temperature

Operating: 5°C to 50°C / 41°F to 122°F

Storage: -30°C to +60°C / -20°F to 140°F

Software Features

Remote Management:

HTTPS & SSH console, Nagios NSCA & NRPE, SNMP, TFTP, FTP server

Management Gateway:

Stateful firewall, IPsec, OpenVPN, DHCP server, DDNS, Failover

Wireless Certification

PTCRB, NAPRD, GCF-CC, R&TTE, EN 301, A-Tick, CDG TIA/EIA-690, CDG TIA/EIA-98-E

Latest Specifications & Ordering

<http://opengear.com/products/im7200-infrastructure-manager>



Your Contact

Ordering Information

Model	Serial Ports	Internal Modem	Power
IM7208-2-DAC	8	V.92 & 802.11 Wi-Fi	Dual AC
IM7208-2-DAC-L	8	V.92, Wi-Fi & 4G LTE	Dual AC
IM7216-2-DAC	16	V.92 & 802.11 Wi-Fi	Dual AC
IM7216-2-DAC-L	16	V.92, Wi-Fi & 4G LTE	Dual AC
IM7232-2-DAC	32	V.92 & 802.11 Wi-Fi	Dual AC
IM7232-2-DAC-L	32	V.92, Wi-Fi & 4G LTE	Dual AC
IM7248-2-DAC	48	V.92 & 802.11 Wi-Fi	Dual AC
IM7248-2-DAC-L	48	V.92, Wi-Fi & 4G LTE	Dual AC

Append -DAC model number with destination country, e.g. "IM7216-2-DAC-US" for USA and Canada. Available country codes -US, -AU, -UK, -EU, -JP

Above models also available with +/- 36V to 72V Dual DC power. To order, use -DDC suffix, e.g. "IM7248-2-DDC" 4G LTE models available: -LA (AT&T USA), -LV (Verizon USA), -LC (Canada), -LR (International). To order, append the model number with the carrier, e.g. "IM7208-2-DAC-LR-EU" for Europe.

Each serial port pinout is software selectable (Cisco-straight or Cisco-rolled)