

Good Morning from Opengear

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Why Smart Out-of-Band Management
offers so much more than simple
„recovery of your broken network
infrastructure“

Smart Out-of-Band

Who is Opengear?

Opengear is a provider of out-of-band management and network resilience solutions that enable persistent access to IT infrastructure independent of the production network.

Our platform combines hardware appliances with Lighthouse as the central software component, which includes Serial Access, Smart Management Fabric (SMF) and Connected Resource Gateway (CRG), to deliver secure remote access, dynamic routing within a management overlay network, and centralized orchestration.

This architecture enables advanced use cases across distributed, edge, and enterprise environments.

Smart Out-of-Band

What happens when your network goes down —
and you can no longer reach the network devices that need fixing?

Out-of-Band Management

gives you a secure, independent path to every device in your network, every
time. **No matter what.**

Smart Out-of-Band

Every minute of network downtime costs money and risks a loss of reputation!

(E.g. Facebook, WhatsApp, Microsoft, Target, etc.)

Out-of-Band Management

means your team can act immediately — from anywhere in the world.

The problem every network team knows about:

Network outage at 2am, and nobody can reach the device remotely

- Engineer or Administrator has to drive to the data center, hours lost, costs rising
- Production systems down - customers affected, SLAs at risk
- No visibility, no control - until someone physically drives to the site

The Solution: Opengear Out-of-Band Management

- Using a dedicated management network, fully isolated from the production network.
- Reach any device — router, switch, firewall, server — directly via console port or network connection.
- Works when the main network is down, congested, or under attack
- Managed centrally via **Opengear Lighthouse** — one interface for all sites and devices
- 4G/5G cellular failover ensures connectivity even without fixed-line infrastructure

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Key Benefits at a Glance

- **Always available:** Access your infrastructure 24/7, even during outages
- **Faster recovery:** Resolve issues remotely in minutes, not hours or even days
- **Lower costs:** Fewer on-site visits, reduced travel costs, less network downtime
- **More secure:** VPN connection, MFA, encrypted sessions — management traffic fully isolated
- **End-to-end encryption:** Extending all the way from your workstation.
- **Compliance-ready:** Full audit logs, role-based access, ISO 27001 and NIST support, WCAG 2.1 AA

Managing Distributed and Edge Infrastructure

Modern networks extend far beyond the traditional data center. Smart Out-of-Band enables secure management of infrastructure in:

- Branch offices (insurance, banks, financial institutes, etc.)
- Retail locations (stores, warehouses)
- Industrial sites
- Telecommunications infrastructure (ISPs, MSPs, etc.)
- Edge computing environments
- Ships – modern vessels are equipped with extensive network infrastructure and can be remotely managed from shore.

Smart Out-of-Band



CASE STUDY

Keeping AIDA Cruises' Ships Connected with *Smart* Out-of-Band Management

To give a sense of scale: even AIDAdiva, the smallest ship in the fleet, supports nearly **16,000 operational IP devices**, plus personal devices used by more than 2,000 passengers and 600 crew members.

Each ship's network infrastructure is extensive and complex. AIDAdiva alone includes **150 kilometers of cabling**, over **700 access points**, and more than 800 switches, interconnected across six fire compartments and two onboard data centers. Managing this requires robust architecture and constant oversight.

The deployment, completed within nine months, equipped:

- ▀ Data centers with **OM2200** console servers (16 serial ports)
- ▀ Distribution rooms with **OM1200** models (4 serial + 4 Ethernet ports)



Smart Out-of-Band

Automation and Zero-Touch Operations

- Smart OOB-platforms support modern automation and remote provisioning

Operational capabilities

- Zero-touch device deployment
- Automated configuration
- Remote scripting and orchestration
- Integration with automation platforms

Impact

- Faster infrastructure rollout
- Reduced operational complexity
- Scalable network management

Opengear Smart Management Fabric

- **Lighthouse:** Centralized management platform — single pane of glass for all locations and devices
- **Resilience Gateway:** Maintains Out-of-Band access even during total network failures
- **Automation:** Automated remediation scripts and self-healing network workflows
- **Cellular Failover:** 4G/5G backup keeps you connected regardless of WAN or ISP state

Smart Out-of-Band

The Strategic Value of Smart Out-of-Band

Smart Out-of-Band Management delivers far more than emergency recovery!

It provides:

- Continuous remote access
- Secure management infrastructure
- Operational resilience
- Automation capabilities
- Efficient management of distributed networks

Smart OOB becomes the dedicated control plane for modern IT infrastructure.

Smart Out-of-Band

Not just serial... Combined Value (OOB + SMF + CRG)

In combination, these technologies provide a complete resilient management platform:

- Smart Out-of-Band → Access during outages
- Smart Management Fabric → Dynamic routed management network
- Connected Resource Gateway → Secure browser-based access to resources from Lighthouse

Result:

- ✓ Higher network resilience
- ✓ Faster troubleshooting and recovery
- ✓ Simplified remote infrastructure management
- ✓ Secure and scalable operations across distributed environments

Smart Out-of-Band

What Could You Regret NOT Doing?

- Will you regret not having remote access the next time a critical device fails at 2am?
- Will you regret the costs of avoidable on-site dispatches?
- Will you regret not being prepared when a network failure becomes a business crisis?

**Let's talk about how Opengear can help your team be ready —
before the next outage happens!**

Secure access during failures is no longer optional; it is foundational to resilience!

Be faster than you can regret doing nothing.

Smart Out-of-Band



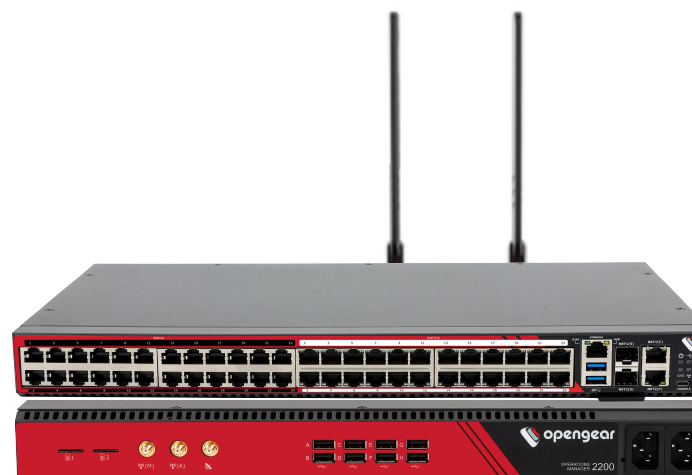
Lighthouse CORE / ENHANCE



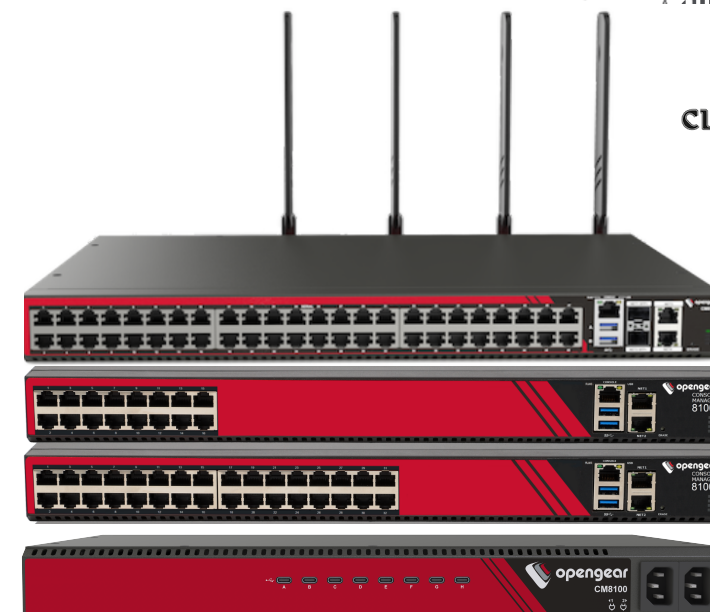
CM8000-Series



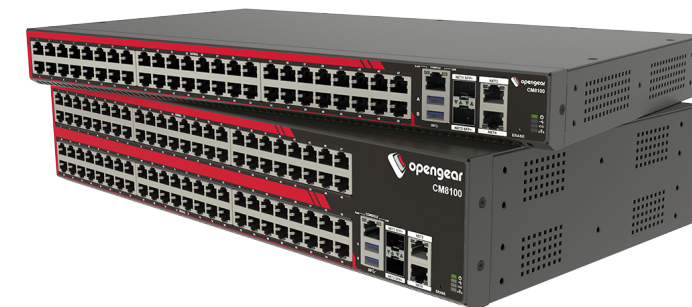
OM1300-Series



OM2224-24E-Series



CM8100-Series



Curious?

Visit us at the exhibition and see Out-of-Band Management live in action.



Thank You!