

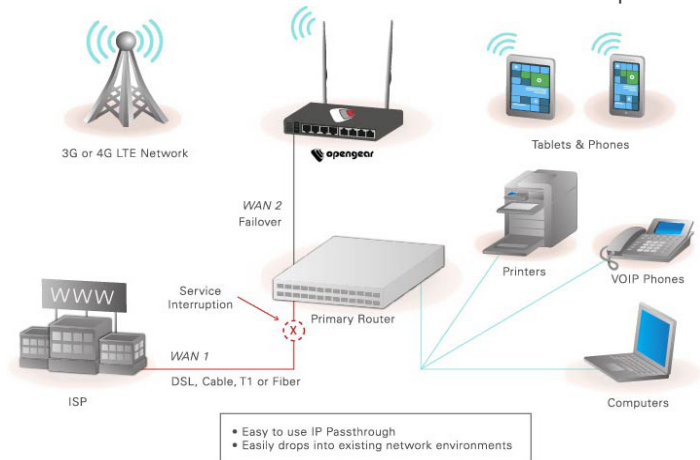
Out-of-band access, monitoring, auto-response and remediation for IT Resilience

Smart OOB™ enables secure remote monitoring, access and management of virtually any electronic device remotely and securely from anywhere.

Opengear **Smart OOB™** solutions raise secure remote access and infrastructure management to a new level. Smart OOB™ extends traditional out-of-band management to monitor and log system health and environmental conditions, proactively detecting faults before they become failures. **Smart OOB™** solutions monitor the physical environment and devices, automatically detect and resolve issues, and leverage the latest cellular technologies to provide access even when the network is down. Coupled with Failover to Cellular™, Opengear ensures uninterrupted availability for remote networks for faster recovery from network and IT failures.

Technical staff need to keep equipment at remote sites running without having to go onsite to handle outages. Opengear's out-of-band management solutions deliver remote access and control even when the network is down. The result is a drastic reduction in the need for expensive on-site technical visits and rapid problem resolution.

- Always-on redundant network connection or automatic failover when primary link goes down
- Sophisticated troubleshooting and remediation at the edge reduces operating costs
- Integrates cellular technologies for out-of-band access, failover and SMS messaging and control
- One solution monitors IT, networking, security and power devices from multiple vendors
- Customized rules and policies initiate action in response to defined events
- Combines with Failover to Cellular™ (F2C) minimize disruption and downtime
- Business continuity solution manageable from a centralized console



Benefits

Remote infrastructure access raised to a new level

- Remote troubleshooting and remediation delivers always-on resilient connectivity
- Intelligence at the network edge minimizes disruption
- Moves computation to the data, rather than moving data to the computation
- Transparent automatic Failover to Cellular™ and always-on **Smart OOB™** access
- Architected to meet IT and IoT resilience needs and scale to manage the infrastructure at thousands of sites, with thousands of devices

Cisco® equipment

- Access to Cisco console ports during network outages
- Back up and restore IOS running config or system image to integrated T/FTP server and USB storage
- Detection and alerting of issues before they become problems
- Simple cabling. No adapter needs for Cisco-style RJ45 consoles

Best value in one box

- Monitor IT, network, security, power and environmental
- Cellular provides an always-up redundant path or hot standby in dormant failover mode, with dynamic least-cost routing
- Cluster hundreds of serial ports behind one network address
- Uninterrupted central monitoring, alerting & AAA during remote WAN provisioning or repair
- Can operate independently of in-band network with integrated PSTN or cellular modem, console server and management LAN
- Root level shell scripting and firmware customization access

Solutions for all environments

- Rack mount or small form factor for environments from data centers to network wiring closets
- Provides a secure connection to any critical ICT equipment and facilities infrastructure
- Drops into existing networks with IPsec to Cisco, Juniper, F5, Aruba, Checkpoint, Fortinet and more — or add Lighthouse Centralized Management for a turn-key VPN solution from a single pane of glass
- Automatic failover when primary connectivity is lost
- Advanced automation with SMS control, connection state alerting, and preemptive failover on environmental catastrophe
- Seamlessly fits into top-of-rack and end-of-row fiber configurations, or all-copper environments

Automated remote management & support

- Smart appliance can automatically detect and repair issues
- Based on customized rules and policies, undertakes complex action depending on what is detected
- Reduces downtime, improves productivity and efficiency
- Uninterrupted service availability with self-healing VPN automatically restoring management network routes

Enterprise grade security

- Default-deny SSH bastion; Granular, role-based user permissions
- IPsec, OpenVPN and PPTP over primary or out-of-band
- FIPS 140-2 validated encryption, certified for use in Government
- Two-factor authentication using RSA SecurID
- RADIUS, TACACS+, Active Directory/LDAP remote authentication

Technical Overview

Product comparison chart: <http://opengear.com/product-feature-comparison>



IM7200
Infrastructure Manager

Connectors

- 8, 16, 32 or 48 RJ45 RS-232 (50 to 230,400 bps, software selectable pinout)
- 1 RJ45 RS-232 local console port
- 1 RJ11 V.92 modem
- Optional 4G LTE cellular modem
- Dual LAN ports available by selecting two from four available ports (2 x 10/100/1000 RJ45 copper and 2 x SFP fiber module slots)
- Optional Wi-Fi Access Point
- 2 USB 3.0

Latest Specifications

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



CM7100
Console Server

Connectors

- 16, 32 or 48 RJ45 RS-232 serial (50 to 230,400 bps)
- 1 RJ45 RS-232 local console
- 2 RJ45 10/100/1000 Base-T Ethernet
- 2 USB 2.0

Latest Specifications

<http://opengear.com/products/cm7100-console-server>



ACM7000
Resilience Gateway

Connectors

- 4 or 8 RJ45 RS-232 serial (50 to 230,400 bps)
- 4G LTE or GSM/CDMA 3G cellular modem
- 2 TTL digital I/O
- 2 HVDO
- 2 RJ45 10/100/1000-T Ethernet
- 4 USB 2.0
- Multi-Carrier Capabilities
- ACM7004-5: 4xGbE, 1xGbE or SFP Port
- PCI-DSS V3.1 compliance

Latest Specifications

<http://opengear.com/products/resilience-gateway>



ACM5500
Remote Management Gateway

Connectors

- 4 or 8 RJ45 RS-232 serial (50 to 230,400 bps)
- Optional RS-422/RS-485
- Optional RJ11 V.92 modem
- Optional 4G LTE or GSM/CDMA 3G cellular modem
- Optional 4 TTL digital I/O
- 2 or 5 10/100Base-T Ethernet
- 2 USB 2.0

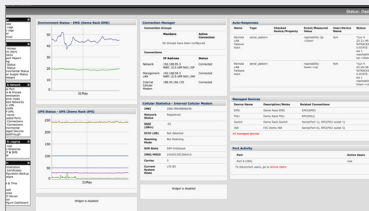
Latest Specifications

<http://opengear.com/products/acm5500-management-gateway>

	Serial Ports			Serial Pinout			Management LAN Ports		Modem		USB	Digital I/O	Power			
	2-4	8	16-48	Cisco Straight	Cisco Rolled	Classic	Single	Switch	Internal PSTN	Internal Cellular			AC	DC	Dual AC	Dual DC
IM7200	•	•		•	•		•		•	•				•	•	
CM7100		•		•			•				•			•	•	
ACM7000	•	•		•			•			•		•		•		
ACM5500	•	•		•			•	•	•	•		•		•		

Opengear Centralized Monitoring and Management

Remote Management



- Fully integrated in- and out-of-band management solution
- Serial console, PDU, UPS, network host monitoring, access and control
- Secure HTTPS web and Linux SSH CLI user interfaces
- Management dashboard for status at a glance
- Extensive data logging and alert delivery feature set

Centralized Management



- Centralized management of your critical infrastructure
- Configuration and connection to your OOB network from a centralized point
- End-to-end out-of-band management solution
- Serial console, PDU, UPS, network host monitoring, access and control from a single pane of glass



Resources

- Web Resource Library:
<http://www.opengear.com/resources>
- Opengear Blog:
<http://blog.opengear.com/>
- Opengear Twitter:
<https://twitter.com/opengear>

Your Contact