

Network Resilience for Enterprise Remote Sites



Ensure uptime at enterprise branch offices and remote sites. Identify and remediate issues at the network edge before they become failures, with **Smart OOB™**. Maximize WAN connectivity of remote sites with Failover to Cellular™ to 4G LTE networks and embedded multi-carrier support. Deploy at retail stores, bank branches, corporate branch offices or remote enterprise properties across the globe and manage them efficiently with Lighthouse.

Problem: IT interruptions, even at branch offices and remote sites, are highly detrimental to business revenue and reputation. Enterprise IT administrators manage complex and heterogeneous networks, compute, storage and power infrastructure distributed around office buildings; it can take hours - sometimes days - to completely recover from an interruption.

Solution: Opengear Resilience Gateway™ deploys alongside network, power and other IT infrastructure at remote sites and branch offices. It monitors everything including the physical environment to proactively detect faults and ensure fast recovery from failures. It provides secure out-of-band access to your critical infrastructure over serial, USB or Ethernet during a system outage to minimize downtime. Also delivers transparent WAN failover to high speed 4G LTE cellular networks to maximize business up-time. The Resilience Gateway prevents faults, reduces truck rolls and minimizes impact to business operations due to IT interruptions across all enterprise remote sites and branch offices.

True out-of-band management with Smart OOB

Smart OOB™ maintains complete control during infrastructure failures and network outages with integrated serial, Ethernet and USB console access to all server, networking, and power infrastructure at remote sites. Models with Gigabit UTP/SFP-Fiber Ethernet ports provide flexibility and longevity. Proactive analysis enables immediate notification of fault conditions with smart alert escalation through SNMP, email and direct SMS. Event based Auto-Response feature via custom scripts remediate common problems. Vendor neutral management of UPSes and PDUs and load shedding during power disruptions helps minimize unscheduled IT shutdowns. Monitoring and logging systems health and even environmental conditions like temperature, humidity, motion, water, door access, security cameras improves physical security of your IT infrastructure.

Maximum WAN connectivity with F2C and carrier diversity

Ensure WAN connectivity and business continuity at branch locations with Failover to Cellular™ to high speed 4G LTE networks. Immediate and transparent failover and failback operations require no manual intervention. Simple LAN-to-WAN IP Passthrough technology ensures easy interoperability with all enterprise routers. Embedded cellular module combined with multi-carrier capabilities enables selection of the best cellular carrier at each remote site. Certified to work with all major carriers across the globe.

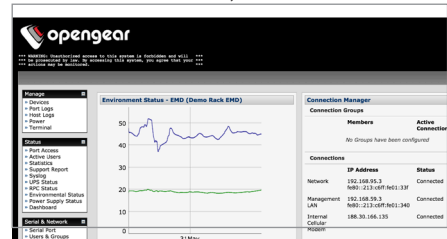
Scalability from few locations to global deployments

Efficiently manage all enterprise locations with Lighthouse. Instant insights into network and infrastructure status at the edge. Securely access all remote infrastructure out-of-band via cellular networks. Create alerts for proactive monitoring and fault detection. Carrier diversity & multi-carrier support ensure global deployments, reduce IT costs and streamline operations – be it 5 sites or 5000 sites.

Resilience Gateway

Best in class out-of-band management and WAN failover

- Manage all edge routers, switches, firewalls, UPSes, PDUs via integrated serial, USB, Ethernet consoles
- Automatically detect problems and remediate with **Smart OOB**
- Log audit trails to embedded 4GB local storage
- Maximize WAN connectivity with failover to 4G LTE cellular and embedded multi-carrier support
- Easy integration into PCI-DSS V3.1 compliant networks. FIPS 140-2, SSL and SSH, stateful firewall, OpenVPN & IPsec
- Environmental and physical sensor alarm notification via SMS, SNMP or email



Integrated Dashboard

Easy to use dashboard provides at-a-glance view of your remote sites

Network Resilience Gateway Benefits

- **Increase IT availability with Smart OOB** access, monitoring, and intelligent fault remediation of network, power, and server infrastructure.
- **Improve remote site WAN connectivity** with high speed WAN failover. 4G LTE cellular connectivity & multi-carrier support certified to work on all major cellular networks.
- **Reduce mean time to repair (MTTR)**, detect and alert on faults and outages, meet SLAs and reduce downtime with remote and auto-remediation.
- **Maintain situational awareness and control** during network outage with site monitoring and management delivered out-of-band.
- **Reduce IT costs** by equipping administrators with always-available, low level remote control of IT, network, UPS and PDU systems.

Who can most benefit from Resilience Gateway?

Retail Chains

Simplify management and secure business continuity across all your stores. Minimize disruptions to store sales and operations with secure out-of-band access to critical IT infrastructure at each location. Maintain WAN connectivity during system failures, network outages and new site turn-up.

Global Enterprises

Remotely manage all critical infrastructure in bank branches, clinics, construction sites and branch offices around the world. Enforce access control policies per user, per managed device with local and remote AAA. Eliminate technician call-outs and truck rolls to repair common faults.

Managed Service Providers

Add value with always-available remote maintenance and repair of firewalls, routers and other customer premise equipment. Call Home to enable inbound remote access to private and firewalled networks. Beat SLAs and enhance service with proactive monitoring and outage auto remediation.

Key Management Features

Cellular out-of-band management

Fast to provision, simple to deploy and fully integrated. Always-available, high-performance remote access over 3G or 4G LTE network. Minimize costs with connectivity watchdog, smart failover and data usage monitoring. More features out of the box, with extensible scripting access and custom development kit for specialized applications. Leverage total remote site monitoring and connectivity to detect and respond to issues before they become outages. Power cycle unresponsive equipment, backup and restore known good device configurations. Time-based alert escalation during protracted outages reduces the cost and incidence of false alarms.

WAN failover with carrier diversity & multi-carrier support

Maintain WAN connectivity across your entire enterprise with failover to 4G LTE Cellular. In-built support for global carriers and dual-SIM, multi-carrier support allows flexibility of carriers per location during installation or at any later time.

Strong security and authentication

Lock down interfaces with local and remote AAA including Active Directory, Kerberos, TACACS+ and RADIUS with RSA SecurID. Encrypt sensitive management traffic with IPsec and OpenVPN. Strong logging and auditing for easy PCI-DSS V3.1 compliance and simple, secure console access via your preferred SSH client or HTTPS web UI.

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 manual and automatic remote power control. Uniquely supports over 100 power vendors' equipment.

Ordering Information

Model	Serial Ports	USB Ports	Network Ports	SIM Card Slots (2FF)	Env/DIO Ports	Storage
ACM7004-2-LA, -LR, -LV	4	4	2 x GbE	1	4	4GB
ACM7004-2-LMA, -LMV, -LMCR, -LMCT	4	4	2 x GbE	2	4	4GB
ACM7008-2-LMA, -LMV, -LMR, -LMCR, -LMCT	8	4	2 x GbE	2	4	4GB
ACM7004-5-LMA, -LMV, -LMR, -LMCR, -LMCT	4	4	5*	2	4	4GB

All models have external AC/DC adapter
 4G LTE models available: -LA, -LMA (AT&T USA), -LV, -LMV (Verizon USA), -LR, -LMR (International), -LMCR (Rogers Canada), -LMCT (Telus Canada)

*Including SFP



Technical Specifications

Networking

LAN & WAN: 2x or 5x Gigabit Ethernet Ports, Integrated 4G LTE Cellular Modem

Services: DHCP, DynDNS, TFTP & FTP, Syslog, NTP

Routing: Static Routes, Port Forwarding, LAN-WAN IP Passthrough, IPv6

Security: Stateful firewall, OpenVPN, IPsec, SSH, SSL/TLS, User & group based ACLs, LDAPS, RADIUS, TACACS+ or Local Passwords, Port Logging, FIPS 140-2

Administration: Web UI & SSH, Nagios, Solarwinds & SNMP, CDK for Auto-Response, Lighthouse CMS

Cellular Carrier Certifications

Verizon Wireless, AT&T Carrier Certified PTCRB NAPRD, GCF-CC, R&TTE, EN 301, RCM, CDG TIA/EIA-690, CDG TIA/EIA-98-E

Power

Dual power 9-30V DC external input
 Power consumption: Less than 12W

Operating Temperatures

5°C to 50°C / 41°F to 122°F

Dimensions

5.14 x 4.76 x 1.4in or 130 x 120 x 34mm
 1.25 lbs or 567 grams

Latest Specifications & Ordering

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



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