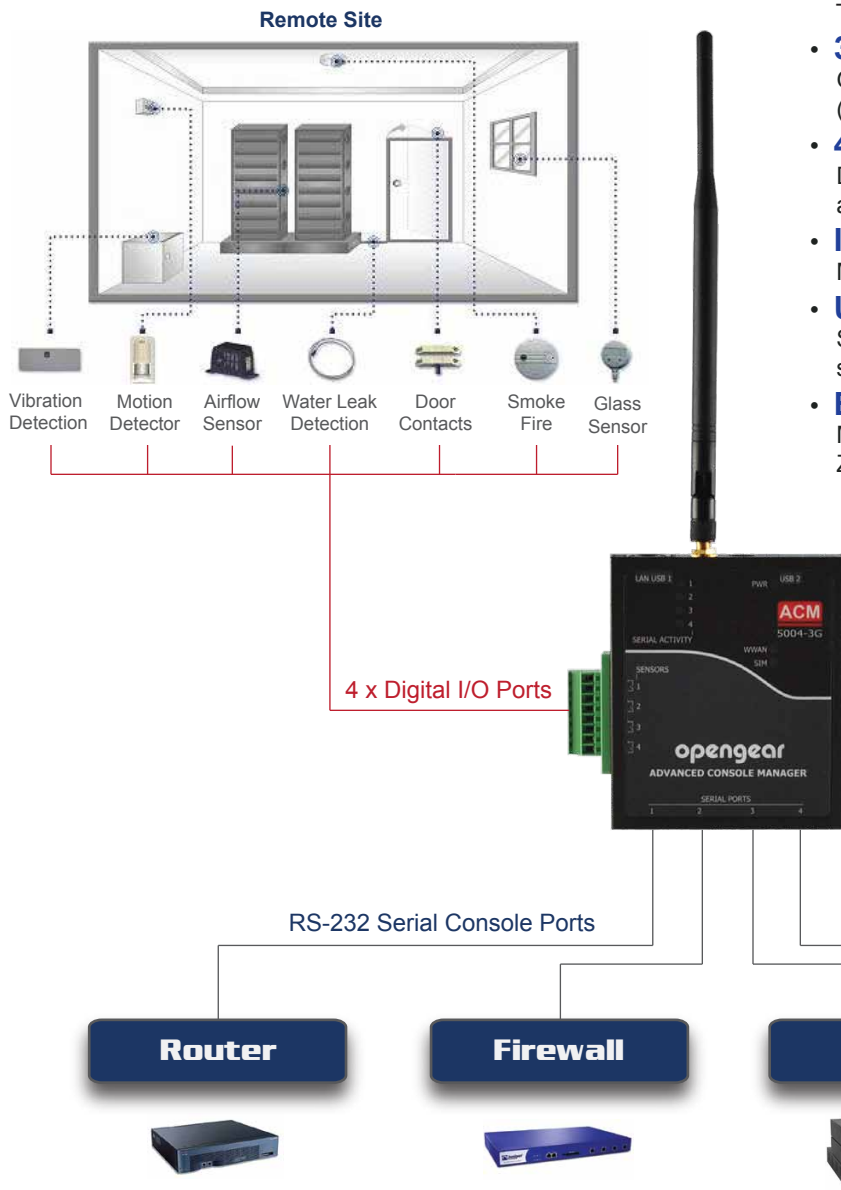




Wireless Edge Device Management
Comprehensive Remote Monitoring and Access to Distributed Sites

Wireless Management Solutions

The Opengear ACM5004-G provides secure remote access to remote sites both In-Band and Out-Of-Band from anywhere in the world. The ACM5004-G provides a synergistic approach to remote site management that combines a single point of access to manage and monitor all equipment at the edge. Our solution delivers Power Management and Monitoring, Serial Console access, Environmental Monitoring, External Environmental Sensors and Internal Flash Memory to help to ensure network security, compliance, and tame the complexities of remote administration. The ACM5004-G is equipped with automatic failover to Cellular networks for reliable uptime. We offer a complete end-end solution with our Opengear Monitor CMS6100, a centralized management system appliance that can be installed at the central location, provide detailed monitoring and advanced management of downstream ACM5004-G's.



- **4 RS-232 Serial Console Ports**
Cisco compatible pinout, manage routers, switches, firewalls
- **External USB for Flash Memory**
TFTP server, store local running config files and IOS
- **3G Cellular Interface**
GSM networks with roaming worldwide on carrier networks (AT&T, T-Mobile, Telstra, Optus...)
- **4 Digital I/O's for external sensor support**
Door contacts, Water leak detection, Smoke & Fire alarms, all closely monitored with advanced alerting mechanisms
- **Internal Temperature Monitor**
Monitor ambient temperature in wiring closets, enclosures
- **UPS and PDU Management**
Script automatic ping detect reboots, monitor remote UPS systems, initiate graceful shutdowns and power shed devices
- **Extensive Monitoring and Alerts**
Monitor attached devices and sensors using Solarwinds, Zenoss, Nagios, CMS6000 and trigger proactive alerts

Automatic Failover



Automatic Failover to Out-Of-Band Connection
 Secure failover using custom carrier APN, public IP, VPN Tunnels, SSH, custom 3rd party security agents

Key Wireless Features

Carrier Specifications

ACM5004-G products are configured for operation on GSM networks with roaming worldwide that operate in the 850/900/1900/2100 MHz frequency bands - AT&T, T-Mobile, Telstra, Optus. Opengear ACM5004-G supports GPRS (80kbps – 236Kbps), UMTS (384Kbps), HSDPA and HSPA (7.2M down/5.76M up) coding and air speeds. Opengear ACM5004-G products work in packet switched (PSD) mode.

Data Plans

To use an Opengear ACM5004-G you need a corporate mobile data service/plan and SIM card from your telco provider with a public (static or dynamic) IP address.

Remote Access

Once an Opengear ACM5004-G device is contactable across the Internet it can be used to manage serial consoles, UPSs, PDUs, environmental modules, service processors, digital I/O and more. Access to the ACM5004-G is via a secure browser (HTTPS), secure terminal emulators (SSH) and Opengear's SDTConnector SSH tunnelling software to access specific network services (RDP, VNC, Telnet, SOL, UDP, and more)

Opengear ACM5004-G products also support M2M applications, serial COM port redirection using PortShare, serial bridging and digital I/O control. Easily connect to utilities, pipelines solar, grid, telco installations and more.

Opengear ACM5004-G devices can also be accessed over corporate VPNs using industry standard secure IPsec tunnelling. Managed devices on the Opengear device's private network can be securely IP accessible from IPsec VPN clients or an IPsec corporate VPN. Automatic failover to enterprise VPN concentrators using wireless Out-Of-Band.

Technical Specifications

Connectors:

- 4 RS232 serial ports (Cisco compatible RJ-45 pinout)
- 1 RJ-45 10/100Base-T primary Ethernet port
- 1 External USB-2 expansion connectors
- 4 TTL level digital I/O ports. 5V max @ 20mA. (ACM5004-G-E)

Power

- 12V DC operation (+9V to +30V)
- 110-240V AC to 12V DC external power adapter
- Power Consumption less than 6W
- ACM5004-G-SDC: 36-72V DC to 12V DC external power converter
- Also supplied with 110-240V AC external power adapter

Environmental

- Humidity: 5% to 90%
- Internal temperature sensor

ACM5004-G

- Ambient operating temperature: 5°C to 50°C (41°F to 122°F)
- Non operating storage temp: -30°C to +60°C (-20°F to +140°F)

Emissions

- FCC Part 15 Subpart B Class A Radiated Emissions 30MHz – 1000MHz
- ICES-003 Issue 4 February 2004 Class A Radiated Emissions 30MHz – 1000MHz
- AS/NZS CISPR 22: 2004 Class A Radiated Emissions 30MHz – 1000MHz
- EN55022: 1998 + A1: 2000 + A2: 2003 Class A Radiated Emissions 30MHz – 1000MHz

Other Agency Approvals

- UL 1950, TUV, C-Tick, RoHS compliant

CPU

- 250Mhz Micrel KSZ8692 ARM9 System on Chip

Memory

- 32MB DDR RAM, 16MB Embedded Flash, Optional xGB USB Flash

Operating System

- Linux with source code access
- Custom development kit (CDK)



Part Number

Description

Part Number	Description
ACM5004-G	Single AC external power supply, Cisco pinout, Single Ethernet, Cellular 3G
ACM5004-G	Single -48v DC Power Supply, Cisco pinout, Single Ethernet, Cellular 3G
ACM5004-G-E	Single AC external power supply, Cisco pinout, Single Ethernet, Cellular 3G, Sensor support
ACM5004-G-E-SDC	Single -48v DC power supply, Cisco pinout, Single Ethernet, Cellular 3G, Sensor support

