

Opengear  
(888) 346-6853  
www.opengear.com

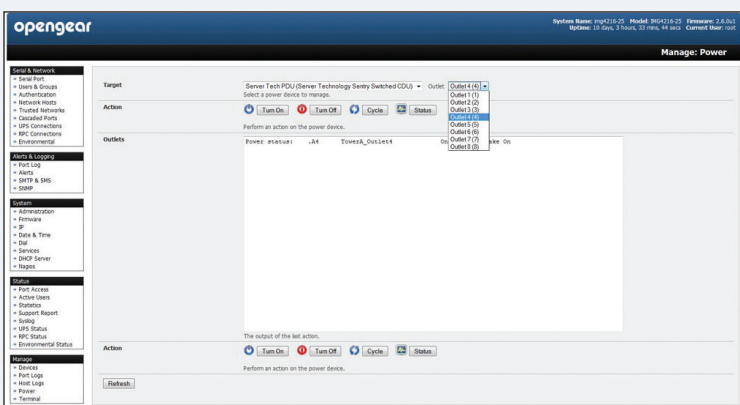
**opengear**  
Advanced Console Management

# Opengear Advanced Console Server Solutions

## The Most Comprehensive Console Server On The Market Today



**UPS Management:** The Opengear NUT Web interface manages system status and logs. UPS status updates monitor battery charge, voltage, input, output, and load.



**PDU Management:** Through the power management CGI, administrators select a target and complete an outlet action. It's a single solution for IT management, environmental monitoring, and power supervision.

## Behind Opengear

OPENGEAR'S PRINCIPAL mission is to be a leading supplier and thought innovator in open-source technologies. In seeking to streamline infrastructure management, Opengear expects to be a pioneer in next-generation console server and power management solutions. In fact, Opengear will be critical to the future of data centers, Linux, and open-source management, according to news reports addressing these themes at IDG World Expo 2008.

To facilitate the control of flexible and extensible network devices, Opengear designs and produces integrated console server solutions for routers, switches, servers, firewalls, PBX UPSes (uninterruptible power supplies), PDUs (power distribution units), and EMDs (environmental monitoring devices). Opengear's solutions reduce the need for costly onsite technical staff and visits.

Opengear also has the upper hand in managing Cisco devices because its console servers and connectivity solutions are advanced enough for both the remote branch and home data center. Opengear is superior to many console servers for numerous reasons. For instance, its simple cabling system allows for fast installation. Administrators can store offline logs for serial ports and available networks. Pattern match alerting guarantees uptime through serial stream scanning on the Cisco console.

Overall, Opengear aims to be technology problem solver, and in doing so, it has been successful in high-tech vertical markets such as government, universities, lab environments, and more. Moreover, Opengear's influence stretches across the globe, from its worldwide headquarters in Brisbane, Australia, to its U.S. headquarters in Sandy, UT. Other branches are located in Boston, MA and Denver, CO.

## Console Server Markets

THE OUTWORKING OF console server evolution, according to Opengear's forward-thinking philosophies, is the provision of comprehensive access to server equipment beyond local and remote access via standard SSH/Telnet or HTTPS programs. Opengear combines the virtualization concept with tools such as serial console ports, service processors, UPS systems, power distribution, and virtual servers. Using next-generation management products, Opengear solutions can fully manage serial console ports, applications, and infrastructure operations.

Opengear employs the only console server on the market with the capability to manage such a range of devices from a single user interface. Remote network management on Opengear consoles addresses mission-critical systems at the office or data center via out-of-band remote tools for full network and server redundancy and reassertion of device control.

To extend its mission and approach to new hardware and software designs, Opengear is a committed member of the Open Management Consortium, synergizing serial console and network console management for its customers. By leveraging Linux and open-source software, Opengear can extend its open technologies to retail markets, campuses, branch offices, and chain stores and can deliver more affordable solutions that the user can openly customize to meet their exact needs.

## Futures

THIS YEAR, Opengear plans to announce the availability of multiple products for managing network devices and physical environments. In Q2, the company will be releasing the Opengear IP-KVM1001, the latest in KVM over IP technology to match the capabilities of the Lantronix Spider, Raritan Dominion KX II-101, and Digi Passport I-KVM. Opengear believes this release will enhance its options for connectivity to the MSP reseller market, as well as serve its data center/colocation and branch office customers. Overall, it will provide a solution that will IP-enable existing analog KVM infrastructures installed in branches offices across the globe.

## IM4200 Series

THE OPENGear IM4200 Infrastructure Manager is designed to manage servers, switches, routers, and core communications equipment. Designed to ensure uptime, the fault-tolerant IM4200 series is available in three configurations: 8, 16, or 48 serial ports, all featuring dual AC or DC power, dual 10/100 Ethernet interfaces, a built-in modem, 2GB flash drive, and automatic failover. USB flash memory is perfect for storing local configurations of communications equipment to help reduce downtime and store offline logs.

As a solution with high availability, each IM4200 Infrastructure Manager ensures secure in-band or out-of-band access to system console ports on core infrastructure with advanced logging and alerting mechanisms to keep system administrators in complete control.



## CM4000 Series

FOR SECURE AND FLEXIBLE access to data center systems, administrators can rely on any model in the CM4000 Console Manager series. In terms of security control, IT is able to restrict system access by IP address, password, and account. Furthermore, the console manager safeguards remote configuration, monitoring, and disaster recovery at mission-critical moments. This open-source platform supports network console ports on Windows, Linux, Sun, HP, and IBM servers.

Enterprises of all sizes can take advantage of four models: the CM4001, a 1-port console server with a small form factor; the CM4008, which has 8 ports and features desktop or wallmount configuration; and the CM4116 (16 ports) and the CM4148 (48 ports) for AC and DC models.



## Power Management & Environmental Monitoring

THE OPENGear approach to power management incorporates a powerful and versatile compilation of UPS hardware for PDU management. Foundationally, Opengear is building on NUT (Network UPS Tools) for both monitoring and administration, so customers can control upwards of 1,000 UPS and PDU products, all from different vendors. Enterprises with diverse operations in many branch offices can manage their power infrastructures from multiple vendors through one management window.

While many console server manufacturers only support management interfaces for their own PDUs, Opengear's management and monitoring solutions allow the administrator to operate beyond this basic configuration.

**NUT.** As an embedded UPS management solution, the NUT configuration provides necessary warnings for IT administrators regarding the status of system power and connected devices. The easy-to-use Web interface allows for frequent UPS status

checkups. NUT also manages network SNMP-connected PDU devices.

**PowerMan.** RPS (remote power controller) management is critical for efficiency in console server environments; PowerMan makes computer cluster operations such as power on, power off, and power cycle simple via the extended Web CGI or hotkey in SSH or Telnet. PowerMan can support a plethora of serial or SNMP-connected RPC devices from the following vendors: ServerTech, Eaton MGE, APC, BayTech, Cyclades,

Digital Loggers, IBM, SmartLabs, IPMI, and more. Overall, PowerMan allows for vendor-neutral power management freedom.

**EMD.** Using a Web browser interface, Opengear's EMD (environmental monitor device) lets the administrator remotely view conditions such as temperature and humidity. Some additional unique features include smoke detection, water leak detection, door contact sensors, and vibration sensors. In the event of a critical incident, the EMD automatically deploys system alarms.

