



CM4000 Console Servers

Features/Benefits

Affordably manage hundreds of serial consoles

Secure In-band and Out-of-band management

Simple browser interface or connect direct to Linux shell

Local or remote console access to headless servers and other network devices

Truly open source console server with full linux kernel access

Microsoft Windows Server 2003 compatible

Console logs maintained and archived off-line for easy problem resolution

Secure, encrypted access to remote systems using up to 128-bit AES encryption

Port access can be restricted by IP address, password or account

Many levels of filtering and access logging

Compact solutions with 8 to 48 serial ports

OVERVIEW

Opengear's console servers enable System Administrators and IT Managers to manage hundreds of serial consoles anywhere in the world, at any time. The CM4000 series console server provides secure and affordable access to the serial console ports on Windows, Sun and Linux servers. They can also monitor and control network appliances (like routers, firewalls and gateways), and more general appliances (like building security, UPSs, PBXs and power switches).

Console servers provide a simple and secure solution for accessing, monitoring, and controlling multiple servers and appliances from a single console. They provide the manager with direct console access for troubleshooting and diagnostics, and enable them to reconfigure and reboot servers and appliances. Managers can connect both locally and remotely.

Opengear's CM4000 console servers integrate a rich spectrum of features that ensure the remote devices are securely managed and monitored. The console server at the remote site can be accessed In-band through the enterprise IP network, or Out-of-band through a dial-up modem PPP port. All connections are secure, with encrypted access to remote systems using up to 128-bit AES encryption. The console server also provides a selection of filtering and access logging facilities. All console logs can be archived off line. Also access can be restricted by IP address or password, or account. So managers can securely control and manage their distributed networks of servers and appliances.

Today, 24/7 operation is imperative for most small and mid-sized enterprises, and not just for the large enterprise data center. System Administrators and IT managers are tasked with keeping their computer facilities up and running on a continuous basis, and to affect this, they need broad console management coverage. Opengear's solutions have been developed specifically to meet this need. CM4000 console servers are of the highest quality, and they are rich in features. However, they are also very aggressively priced, so they are affordable for deployment in the smallest office.

Opengear's products are built on open source standards. They leverage the strength, the security and the broad services of Linux, and they enable users to customize management solutions to meet their own needs. The CM4000 console management solutions all have a simple Web browser interface so the manager can easily configure the appliance, set security levels and access the serial console ports. The manager also can interface directly at the command line with the Linux kernel running inside the CM4000. Opengear takes a lead role in the development of open source console management and KVM technology. The CM4000 is supplied with source code and the freedom under open source to be uniquely configured and customized to meet the System Administrator's or IT Manager's needs.

CM4000 Series Specifications

FEATURES

Security and Authentication

- Secure Shell (SSH V2)
- IP Packet Filtering
- TACACS, TACACS+
- RADIUS
- PAP/CHAP authentication (dial up)
- Local authentication
- System event Syslog

Management

- Secure Web management (HTTPS)
- Local browser management (HTTP)
- Command Line interface (Linux Shell)
- SNMP
- Port triggers and alerts
- Offline data capture via data sniffing and logging (Syslog, NFS, CIFS)

Accessibility

- In-Band (Ethernet)
- Out-of-band (Dial-up modem access through DB9 serial port)
- Local access (through DB9 serial port)

Other Protocols Supported

- DHCP for dynamic IP assignment
- NTP for time synchronization
- PPP for dial up access
- FTP, TFTP client for file transfer

Upgrades

- Flash upgradeable
- Free upgrades from online FTP site

Port Access

- Telnet/SSH to Linux shell
- SUN / Solaris ready (no inadvertent breaks)
- Break over SSH support

Other Features

- Full source code access enables custom configuration
- SSH Sessions on all ports
- Multiple users per port

Operating System

- SG Linux

Models

- CM4008: 8 port unit
- CM4116: 16 port unit
- CM4148: 48 port unit

HARDWARE

Connectors

CM4008: 8 RJ-45 RS-232 serial ports (2400 to 230,400bps)
CM4116: 16 RJ-45 RS-232 serial ports (2400 to 230,400bps)
CM4148: 48 RJ-45 RS-232 serial ports (2400 to 230,400bps)
1 DB-9 RS-232 local / modem port (2400 to 115,200 bps)
1 RJ-45 10/100Base-T Ethernet port

Cables

2 RJ-45 CAT5 cables (6 ft)
2 RJ-45 to DB-9 adapters (straight & cross-over)

Power

External 100-240V AC, 50/60 Hz
Power consumption less than 20W

Dimensions

CM4008: 8.2 x 4.9 x 1.2 in (20.8 x 12.6 x 4.5 cm) Desktop
CM4116 & CM4148: 17 x 8.5 x 1.75 in (43.2 x 21. x 4.5 cm) 1RU

Environmental

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)

Humidity

5% to 90%

Regulatory

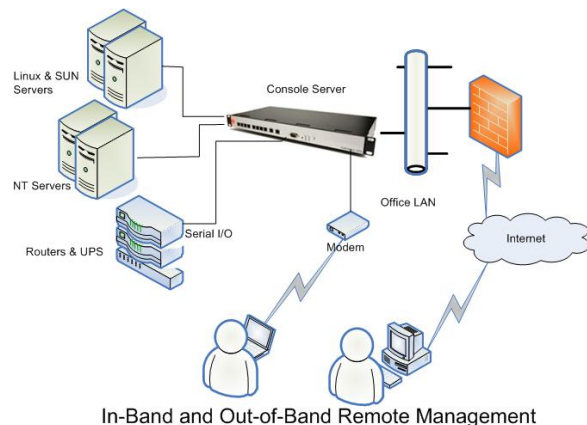
FCC Part 15, A
UL1950

CPU

166MHz ARM-based System on Chip (Micrel KS8695P)

Memory

CM4008: 16MB SDRAM 8MB Flash
CM4116 & CM4148: 64MB SDRAM 16MB Flash



In-Band and Out-of-Band Remote Management

YSOL

YS Solutions Co., Ltd.