

AVOCENT® ACS 6000 ADVANCED CONSOLE SERVER

A Next-Generation Console Management Solution



BENEFITS

- Secure in-band and out-of-band network remote management
- Streamline installation and configuration with Zero Touch Provisioning
- Access to remote and unreachable locations using automatic network failover to cellular (and failback) capability
- Eliminates adaptors for Cyclades™ and Cisco® pin-out conversions
- Compliance with data center access and security policies – customizable, multiple access levels
- Integrated power management – support for MPH2™ Rack PDUs and third-party power support
- Compatible with next-generation network standards – IPv6
- Centralized management using Avocent DSView management software
- Strong dial-up and secure dial-back using optional built-in modem
- Automatic event tracking and notification of fault conditions
- Regulatory compliance and easy trouble shooting – online and off-line data logging with time stamps
- FIPS 140-2 compliance: Based on the FIPS 140-2 validated cryptographic module(s) (Certificate #1747)

The Avocent® ACS 6000 advanced console server series integrates cutting edge technologies, adaptive services and secure enterprise communications in order to offer IT professionals and network operations center (NOC) personnel the ability to perform secure, remote data center management and out-of-band management of IT assets from anywhere in the world. Using a hardened Linux® operating system and DSView™ management software, the Avocent ACS 6000 provides optimal performance, security, reliability, and a complete out-of-band management solution.

High-Performance Design and Advanced Features

The Avocent ACS 6000 advanced console server series offers upgraded and advanced features that deliver scalable and high performance solutions for IT administrators. The console server features a high-speed processor platform with dual gigabit-Ethernet ports for redundancy and optional built-in modem. In addition, they feature an internal temperature sensor for device-level monitoring and configurable pin-outs for serial ports. The Avocent ACS 6000 advanced console server also offers robust software features to meet the requirements of the most demanding data center management applications. Features include automated discovery tools to ease identification of servers, routers, switches and power devices connected to any serial port, saving time at initial configuration and installation. To comply with existing data center network access policy, the Avocent ACS 6000 advanced console server provides customizable, multiple access levels for secure management.

The console servers provide a complete solution for secure, remote control with advanced console server features such as enhanced security, data logging and event monitoring. In addition, the Avocent ACS 6000 advanced console server supports next-generation network standards such as Internet Protocol version 6 (IPv6). Available in 4-, 8-, 16-, 32- and 48-port models that fit in 1U of rack space with single and dual, AC and DC power options. With or without modem, the ACS 6000 console server helps maximize IT asset productivity while providing scalability and reducing operational costs.

Applications

- Secure console and power management
- Server and network management
- Secure access to test and development lab environments
- Telco central office and remote facilities



Avocent® ACS 6048 Advanced Console Server

Hardware Specifications

CPU	PPC440EPx @ 533 MHz (PowerPC with Security Acceleration Engine)
Memory	128 MB NAND flash (embedded ICs on motherboard); 256 MB DDR-2 memory (embedded ICs on motherboard)
Interfaces	2 Gigabit (10/100/1000BT) Ethernet interfaces on RJ45; 1 RS-232 serial console port on RJ45; 1 AUX RS232 port on RJ45 OR internal modem V.92 port on RJ45 (RJ11 compatible); RS232 ports on RJ45; 1 USB 2.0 Host on Type A connector
Power	Internal 100–240 VAC, 50/60 Hz Optional –48 VDC power supply; optional dual entry, redundant AC and DC power supplies
Power Usage	Nominal voltage 120VAC: Typical 0.17A, 20W; Maximum 0.25A, 30W Nominal voltage 230VAC: Typical 0.1A, 23W; Maximum 0.15A, 35W Nominal voltage -48VDC (20% tolerance); Typical 0.5A
Operating Temp.	32° to 122°F (0° to 50°C)
Storage Temp.	–4° to 158°F (–20° to 70°C)
Humidity	20% to 80% noncondensing
Non-Operating Humidity	5% to 80% relative humidity
Dimensions (W x D x H)	17.250 x 9.5 D x 1.75 in. (43.82 x 24.13 x 4.45 cm)
Weight	6.6 lbs
Certifications	Emissions and Immunity: FCC Class B; CE Class A (EU); ICES-003 (Canada); VCCI (Japan); C-Tick (Australia); Customs Union (CU) Safety: UL (USA); cUL (Canada); EN-60950 (EU); CB; Customs Union (CU) In addition, the following certifications for specific models: KCC (Korea)* * Only specific models are certified to the above certifications

Ordering Details

AC Power Supply Models

AC MODELS	DESCRIPTION
ACS6004SAC-G2	ACS 6000 4-port unit single AC power supply
ACS6004DAC-G2	ACS 6000 4-port unit dual AC power supply
ACS6004MDAC-G2	ACS 6000 4-port unit dual AC power supply with built-in modem

AC MODELS	DESCRIPTION
ACS6008SAC-G2	ACS 6000 8-port unit single AC power supply
ACS6008DAC-G2	ACS 6000 8-port unit dual AC power supply
ACS6008MDAC-G2	ACS 6000 8-port unit dual AC power supply with built-in modem
ACS6016SAC-G2	ACS 6000 16-port unit single AC power supply
ACS6016DAC-G2	ACS 6000 16-port unit dual AC power supply
ACS6016MDAC-G2	ACS 6000 16-port unit dual AC power supply with built-in modem
ACS6032SAC-G2	ACS 6000 32-port unit single AC power supply
ACS6032DAC-G2	ACS 6000 32-port unit dual AC power supply
ACS6032MDAC-G2	ACS 6000 32-port unit dual AC power supply with built-in modem
ACS6048SAC-G2	ACS 6000 48-port unit single AC power supply
ACS6048DAC-G2	ACS 6000 48-port unit dual AC power supply
ACS6048MDAC-G2	ACS 6000 48-port unit dual AC power supply with built-in modem

DC Power Supply Models

DC MODELS	DESCRIPTION
ACS6008SDC-G2	ACS 6000 8-port unit single DC power supply
ACS6008MSDC-G2	ACS 6000 8-port unit single DC power supply with built-in modem
ACS6032DDC-G2	ACS 6000 32-port unit dual DC power supply
ACS6032MDDC-G2	ACS 6000 32-port unit dual DC power supply with built-in modem
ACS6048DDC-G2	ACS 6000 48-port unit dual DC power supply
ACS6048MDDC-G2	ACS 6000 48-port unit dual DC power supply with built-in modem

Features

Operating System

- Embedded Linux

Accessibility

- Zero Touch Provisioning (ZTP)
- In-band (Ethernet) and out-of-band (dial-up modem) support
- Built-in modem connectivity
- Allows for alternative access interfaces, such as modem (v.92) or 4G through USB device

Availability

- Automatic Ethernet failover using second gigabit Ethernet port as the secondary port

- Dual power supply
- Internal modem support
- USB port support for modems, fiber and storage

Security

- The FIPS mode of operation uses an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1051)
- Preset security profiles—secure, moderate and open
- Custom security profiles
- X.509 SSH certificate support
- SSHv1 and SSHv2
- Local, RADIUS, TACACS+, LDAP/AD, NIS and Kerberos authentication
- Two-factor authentication (RSA SecurID®)
- One-Time Password (OTP) authentication
- Local, backup-user authentication support
- PAP/CHAP and Extensible Authentication Protocol (EAP) authentication (for dial-up lines)
- Group authorization: TACACS+, RADIUS and LDAP; Port access; Power access; Appliance privilege
- IP packet and security filtering
- User-access lists per port
- System event syslog
- IPSec with NAT traversal support
- IP forwarding support
- Secure factory defaults
- Strong password enforcement

Console Management

- Sun break-safe (Solaris Ready Certified)
- Break-over SSH support
- Off-line data buffering – local and remote (NFS/Syslog/DSView software)
- Level-based syslog filters
- Time stamp and rotations for data buffering
- Unlimited number of simultaneous sessions
- Simultaneous access on the same port (port sniffing) with ability to toggle
- Configurable event notification (e-mail, pager, SNMP trap)
- Customizable, global time zone support
- Multiple and customizable user levels of access

Port Access

- Directly by server name or device name
- CLI Command
- Simultaneous Telnet and SSH access
- HTTP/HTTPS

System Management

- Configuration wizard in Web for first-time users
- Auto-discovery for automatic deployment
- Command line interface (CLI)
- Web Management Interface (HTTP/HTTPS)
- SNMP
- Internal temperature sensor

Cabling

- CAT-5 compatible adapters for simpler cabling*
- Configurable Cyclades and Cisco pin-outs for serial ports

Upgrades

- Upgrades available on FTP site, no charge
- TFTP support for network boot