AVOCENT® ACS 8000 ADVANCED CONSOLE SERVER

A Next-Generation Console Management Solution

VERTIV™

BENEFITS

Applications

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

Benefits

- Secure in-band and out-of-band network remote management
- Fast, automated configuration with Zero Touch Provisioning
- Access and troubleshoot remote locations using automatic network failover to cellular (and failback)
- No need for adaptors with automatic Cyclades™ and Cisco pin-out conversions
- Compliance with data center access and security policies – customizable, multiple access levels
- NEW! - Expanded support for Rack PDUs from Vertiv™, ServerTech, APC, Raritan and Eaton
- NEW! - Support for Vertiv GXT4 UPS systems
- IPv6 and IPv4 support for new network deployments
- Support for Avocent DSView™ management software
- Strong dial-up and secure dial-back using optional built-in modem
- Console event logging and notification, including "last gasp" capture
- Regulatory compliance and easy troubleshooting – online and off-line data logging with time stamps
- NEW! - Integrated support for 1Gb SFP fiber modules
- NEW! - 8 USB ports to support new IT equipment and external devices
- NEW! - Environmental sensor port

Avocent® ACS 8000 Advanced Console Server

The Avocent® ACS 8000 advanced console server series continues the long running success story with a new, ground-up platform of innovation, integrating important new connectivity features such as gigabit fiber, USB and sensors. IT professionals and network operations center (NOC) personnel can now harness these new capabilities to further enable them to perform secure, remote data center management and out-of-band management of IT assets from anywhere in the world. Featuring a dual-core ARM processor architecture with expanded memory capabilities, the updated Linux operating system and DSView™ management software, provides the Avocent® ACS 8000 optimal performance, security, reliability for a complete out-of-band management solution.

High-Performance Design and Advanced Features

The Avocent® ACS 8000 advanced console server series offers upgraded and advanced features that deliver scalable and high performance solutions for IT administrators. The console server features a dual ARM core processor platform with dual gigabit-Ethernet ports and dual gigabit-Fiber ports for redundancy and optional built-in modem. In addition, there is a new sensor port, to connect a variety of sensors for monitoring and logging on the appliance. Our serial ports are now auto sensing for pin-out and the Avocent® ACS 8000 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 8000 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 8000 advanced console server supports next-generation network standards such as Internet Protocol version 6 (IPv6). Available in 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 8000 console server helps maximize IT asset productivity while providing scalability and reducing operational costs.

Hardware Specifications

CPU	Dual-core ARM® Cortex™-A9 MPCore™ with CoreSight™
Memory	1GB DDR3L RAM 16GB eMMC Flash
Interfaces	2 Gigabit Fiber SFP ports 2 Gigabit (10/100/1000BT) Ethernet interfaces on RJ45 1 RS-232 serial console port on RJ45 Up to 48 RS-232 serial ports on RJ45 First 2 ports selectable between RS-232/RS-422/RS-485 8 USB 2.0 Ports on Type A connector 1 full size SD Card slot Environmental sensor port on RJ45 (1-wire) 4 digital-in ports (smoke, leak, pressure and dry contact sensors)
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 0.13A, 6.2W Maximum 0.47A, 28W Nominal voltage 240VAC: Typical 0.10A, 7W Maximum 0.29A, 28W Nominal voltage 48VDC (±20%) Typical 0.22A, 11W Maximum 0.67A, 33W
Operating Temp.	14°F to 140°F (-10°C to 60°C)
Storage Temp.	-4° to 158°F (-20° to 70°C)
Humidity	20% to 80% noncondensing
Non-perating Humidity	5% to 95% 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	7.5 lbs
Certifications	Emissions and Immunity: • FCC Class A • CE Class A (EU) • ICES-003 (Canada) • VCCI (Japan) • RCM (Australia) • Customs Union (CU) • KCC (Korea) Safety: • UL (USA) • cUL (Canada) • EN-60950 (EU) • CB • Customs Union (CU)

Ordering Details

AC Power Supply Models

AC MODELS	DESCRIPTION
ACS8008SAC-400	ACS 8000 8-port unit single AC power supply
ACS8008DAC-400	ACS 8000 8-port unit dual AC power supply
ACS8008MDAC-400	ACS 8000 8-port unit dual AC power supply with built-in modem
ACS8016SAC-400	ACS 8000 16-port unit single AC power supply
ACS8016DAC-400	ACS 8000 16-port unit dual AC power supply
ACS8016MDAC-400	ACS 8000 16-port unit dual AC power supply with built-in modem
ACS8032SAC-400	ACS 8000 32-port unit single AC power supply
ACS8032DAC-400	ACS 8000 32-port unit dual AC power supply
ACS8032MDAC-400	ACS 8000 32-port unit dual AC power supply with built-in modem
ACS8048SAC-400	ACS 8000 48-port unit single AC power supply
ACS8048DAC-400	ACS 8000 48-port unit dual AC power supply
ACS8048MDAC-400	ACS 8000 48-port unit dual AC power supply with built-in modem

Additional models are also available. Contact your sales representative for more information

DC MODELS	DESCRIPTION
ACS8008SDC-400	ACS 8000 8-port unit single DC power supply
ACS8008MDC-400	ACS 8000 8-port unit single DC power supply with built-in modem
ACS8032DDC-400	ACS 8000 32-port unit dual DC power supply
ACS8032MDDC-400	ACS 8000 32-port unit dual DC power supply with built-in modem
ACS8048DDC-400	ACS 8000 48-port unit dual DC power supply
ACS8048MDDC-400	ACS 8000 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/cellular modem) support

- Built-in v.92 analog modem connectivity

- External device connectivity such as LTE/4G cellular router

Availability

- Automatic Ethernet or Cellular failover using second GbE port for failover

- Support for multiple-routing tables

- Dual power supply design

- Dual GbE Ethernet support

- Dual 1Gb SFP Fiber support

- USB port support

Security

- 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

- Autosensing for Cyclades and Cisco pin-outs for serial ports

Upgrades

- Upgrades available on FTP site, no charge

- TFTP support for network boot