Avocent® ACS 6000 Advanced Console Server
A Next-Generation Console Management Solution

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
- Easy configuration and installation – Auto-discovery tool
- 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 Avocent® PM-series Rack Power Distribution Units (Rack PDUs), Emerson Network Power MPH2™ Rack PDUs and third-party power support
- Compatible with next-generation network standards – IPv6
- Centralized management using Avocent DSVview™ management software
- Strong dial-up and secure dial-back using optional built-in modem
- Access to remote and unreachable locations using Ethernet or internal 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 compliant cryptography – The FIPS mode of operation uses an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1051)

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, the Avocent® ACS 6000 advanced console server provides optimal performance, security and reliability. Using Avocent DSVView™ 4 management software and integrated power, the Avocent® ACS 6000 server provides 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 or PBX 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.

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HARDWARE SPECIFICATIONS

CPU
PPC440EPx @ 533 MHz (PowerPC with Security Acceleration Engine)

Memory
128 MB NAND flash (embedded ICs on motherboard)
256 MB DDR2-2 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

Dimensions (W x D x H)
17.250 x 9.5 X 1.75 in. (43.82 x 24.13 x 4.45 cm)

Weight
6.6 lbs

Certifications
Security Standards
• CCFC Class B
• CE Class A (EU)
• ICES-003 (Canada)
• VCCI (Japan)

In addition, the following certifications for specific models:
• GOSTR (Russia)*
• MIC (Korea)*

* Only specific models are certified to the above certifications

FEATURES

Operating System
• Embedded Linux

Accessibility
• 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
• FIPS 140-2 compliant cryptography – The FIPS mode of operation uses an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1051)

• Pre-set security profiles – secure, moderate and open

• Custom security profiles
• X.509 SSL certificate support
• SSHv1 and SSHv2
• Local, RADIUS, TACACS, LDAP/AD, NIS and Kerberos authentication
• 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

– Application 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 3 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
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– 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

ORDERING DETAILS

AC POWER SUPPLY MODELS

<table>
<thead>
<tr>
<th>AC MODELS</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>ACS6004SACG2</td>
<td>ACS 6000 4-port unit single AC power supply</td>
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<tr>
<td>ACS6008SACG2</td>
<td>ACS 6000 8-port unit dual AC power supply</td>
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<tr>
<td>ACS6016SACG2</td>
<td>ACS 6000 16-port unit single AC power supply</td>
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<tr>
<td>ACS6016DACG2</td>
<td>ACS 6000 16-port unit dual AC power supply</td>
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<tr>
<td>ACS6032SACG2</td>
<td>ACS 6000 32-port unit single AC power supply</td>
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<tr>
<td>ACS6032DACG2</td>
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<tr>
<td>ACS6048SACG2</td>
<td>ACS 6000 48-port unit single AC power supply</td>
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<td>ACS6048DACG2</td>
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DC POWER SUPPLY MODELS

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<tr>
<td>ACS6004SDCG2</td>
<td>ACS 6000 4-port unit single DC power supply</td>
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<tr>
<td>ACS6008SDCG2</td>
<td>ACS 6000 8-port unit single DC power supply</td>
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<tr>
<td>ACS6032SDCG2</td>
<td>ACS 6000 32-port unit dual DC power supply</td>
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