

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

Infrastructure Management &  
Monitoring for  
*Business-Critical Continuity™*

## 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 Power Management Distribution Units (PM PDUs) and third-party power support
- Compatible with next-generation network standards – IPv6
- Centralized management using DSVIEW 3 management software
- Strong dial-up and secure dial-back using optional built-in modem and 16- and 32-bit PC card options
- Access to remote and unreachable locations using Ethernet/Modem PC cards
- 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 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 ACS 6000 console server provides optimal performance, security and reliability. Using DSVIEW® 3 management software and integrated power, the ACS 6000 server provides a complete out-of-band management solution.

### High-Performance Design and Advanced Features

The ACS 6000 advanced console server series offers upgraded and advanced features that deliver scalable and high performance solutions for IT administrators. The console servers feature a high-speed processor platform with dual gigabit-Ethernet ports for redundancy, optional built-in modem and two 16- and 32-bit PC card options. In addition, they feature an internal temperature sensor for device-level monitoring and configurable pin-outs for serial ports. The ACS 6000 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 ACS 6000 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 ACS 6000 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.



ACS 6008  
Advanced  
Console  
Server



# Avocent ACS 6000 Advanced Console Server

## A Next-Generation Console Management Solution

Infrastructure Management & Monitoring for Business-Critical Continuity™

### HARDWARE SPECIFICATIONS

|                          |   |
|--------------------------|---|
| CPU                      | PPC440EPx @ 533 MHz (PowerPC with Security Acceleration Engine)   |
| Memory                   | 128 MB NAND flash (embedded ICs on motherboard)<br>256 MB DDR-2 memory (embedded ICs on motherboard)  |
| Interfaces               | 2 Gigabit (10/100/1000BT) Ethernet interfaces on RJ45<br>1 RS-232 serial console port on RJ45<br>1 AUX RS232 port on RJ45 OR internal modem V.92 port on RJ45 (RJ11 compatible)<br>RS232 ports on RJ45<br>1 USB 2.0 Host on Type A connector<br>2 PC Card / CardBus with ejector (dual Type II or single Type III)  |
| PC Card Slots Supporting | Ethernet, fast Ethernet (fiber optic), Fiber and Memory Cards, V.92 and modems, compact flash, IDE drive  |
| Power                    | Internal 100–240 VAC, 50/60 Hz Optional –48 VDC power supply<br>Optional dual entry, redundant AC and DC power supplies   |
| Power Usage              | Nominal voltage 120VAC:<br>Typical 0.17A, 20W<br>Maximum 0.25A, 30W<br>Nominal voltage 230VAC:<br>Typical 0.1A, 23W<br>Maximum 0.15A, 35W<br>Nominal voltage -48VDC (20% tolerance)<br>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 D x 1.75 in. (43.82 x 24.13 x 4.45 cm)   |
| Weight                   | 6.6 lbs   |
| Certifications           | Security Standards<br>• FIPS 140-2 compliant cryptography – The FIPS mode of operation uses an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #1051)<br><br>Emissions and Immunity:<br>• FCC Class B<br>• CE Class A (EU)<br>• ICES-003 (Canada)<br>• VCCI (Japan)<br>• C-Tick and A-Tick (Australia)<br><br>Safety:<br>• UL (USA)<br>• cUL (Canada)<br>• EN-60950 (EU)<br>• CB<br>• NEBS by Design**<br><br>In addition, the following certifications for specific models:<br>• GOSTR (Russia)*<br>• MIC (Korea)*<br><br>* Only specific models are certified to the above certifications<br>** NEBS level 3 compliant design |

### ORDERING DETAILS

#### SINGLE POWER SUPPLY MODELS

| AC MODELS   | DC MODELS   | PORTS | OPTIONS |
|-------------|-------------|-------|---------|
| ACS6004SAC  | ACS6004SDC  | 4     |         |
| ACS6004MSAC | ACS6004MSDC | 4     | Modem   |
| ACS6008SAC  | ACS6008SDC  | 8     |         |
| ACS6008MSAC | ACS6008MSDC | 8     | Modem   |
| ACS6016SAC  | ACS6016SDC  | 16    |         |
| ACS6016MSAC | ACS6016MSDC | 16    | Modem   |
| ACS6032SAC  | ACS6032SDC  | 32    |         |
| ACS6032MSAC | ACS6032MSDC | 32    | Modem   |
| ACS6048SAC  | ACS6048SDC  | 48    |         |
| ACS6048MSAC | ACS6048MSDC | 48    | Modem   |

#### DUAL POWER SUPPLY MODELS

| AC MODELS   | DC MODELS   | PORTS | OPTIONS |
|-------------|-------------|-------|---------|
| ACS6004DAC  | ACS6004DDC  | 4     |         |
| ACS6004MDAC | ACS6004MDDC | 4     | Modem   |
| ACS6008DAC  | ACS6008DDC  | 8     |         |
| ACS6008MDAC | ACS6008MDDC | 8     | Modem   |
| ACS6016DAC  | ACS6016DDC  | 16    |         |
| ACS6016MDAC | ACS6016MDDC | 16    | Modem   |
| ACS6032DAC  | ACS6032DDC  | 32    |         |
| ACS6032MDAC | ACS6032MDDC | 32    | Modem   |
| ACS6048DAC  | ACS6048DDC  | 48    |         |
| ACS6048MDAC | ACS6048MDDC | 48    | Modem   |

### 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), Ethernet, fast Ethernet (fiber optic) through 16- and 32-bit PC cards

#### Availability

- Automatic Ethernet failover using second gigabit Ethernet port as the secondary port
- Dual power supply
- Internal modem support
- USB port option allows for storage or to connect USB-based PC cards

#### Security

- FIPS 140-2 compliant cryptography – 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 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
- 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