

# AVOCENT® ACS 800 SERIAL CONSOLE

A Compact Serial Console for Remote Edge Applications



## 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 fallback)
- Automatic pin-out detection for both Cyclades™ and Cisco pin-outs using straight through cables
- Compliance with data center access and security policies – customizable, multiple access levels
- Support for Rack PDUs from Vertiv™, ServerTech, APC, Raritan and Eaton
- 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
- 4 USB ports to support new IT equipment and external devices
- Environmental sensor port to connect temperature, humidity, differential pressure, leak, door pin sensors (up to 8 can be daisy chained)



Avocent® ACS 800 Serial Console for the Edge

The Avocent ACS 800 serial console system takes our renowned enterprise class technologies utilized in data centers around the world and packages the key features into an exciting compact and cost effective form factor. Providing serial access, environmental monitoring, IoT integration and remote networking capability to the Edge oriented market sectors of financial institutions, retail chains, education and others.

Regional IT managers and facility engineers will benefit with the ability to perform secure, remote 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, RS232/RS485/RS422 serial access, USB, Gigabit Ethernet and environmental sensor access, the Yochto project based

Linux operating system and available DSView™ management software, provides the Avocent ACS 800 optimal performance, security, reliability for a complete out-of-band management solution.

## Applications

- Remote management of Edge locations
- Secure interface for IT console access of IT equipment
- Environmental monitoring
- Power and UPS monitoring and control



## High-Performance Design and Advanced Features

The Avocent® ACS 800 Serial console 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 out-of-band network access via an optional built-in analog modem or an external 4G/LTE cellular router. In addition, there is an environmental sensor port, to connect a variety of sensors for monitoring and logging on the appliance. Serial ports are auto sensing for pin-out and the Avocent ACS 800 serial console offers robust software features to meet the requirements of the most demanding remote 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 network access policies, the Avocent ACS 800 serial console provides customizable, multiple access levels for secure management.

Secure, remote control with advanced console server features such as enhanced security, data logging and event monitoring, the Avocent ACS 800 serial console supports next-generation network standards such as Internet Protocol version 6 (IPv6). Available in 2-, 4-, and 8-port desktop models, optional mounting kits are available for wall, DINrail, or 1U rack mounting. The ACS800 serial console is the perfect solution with its compact form factor and cost effective design to help maximize IT asset productivity and help reduce operational costs.

## Hardware Specifications

|                        |  |  |
|------------------------|--|--|
| CPU                    | Dual-core ARM® Cortex™-A9 MPCore™ with CoreSight™  |  |
| Memory                 | 1GB DDR3L RAM<br>16GB eMMC Flash   |  |
| Interfaces             | 2 Gigabit (10/100/1000BT) Ethernet interfaces on RJ45<br>1 serial console port on RJ45<br>2, 4, or 8 serial ports on RJ45<br>Serial selectable between RS-232/RS-422/RS-485<br>4 USB 2.0 Ports on Type A connector<br>Environmental sensor port on RJ45 (1-wire)<br>Digital-Out port |  |
| Power                  | External AC/DC Power Adapter (power brick) 100–240 VAC,<br>50/60 Hz Input, 12 VDC Output   |  |
| Power Usage            | Nominal voltage 120VAC:<br>Typical 0.13A, 6.2W<br>Maximum 0.47A, 28W<br>Nominal voltage 240VAC:<br>Typical 0.10A, 7W<br>Maximum 0.29A, 28W   |  |
| Operating Temp.        | 32° to 158°F (0° to 70°C)  |  |
| Storage Temp.          | -4° to 194°F (-20° to 90°C)  |  |
| Humidity               | 20% to 80% noncondensing   |  |
| Non-perating Humidity  | 5% to 95% relative humidity  |  |
| Dimensions (W x D x H) | 8.374" x 7.156" x 1.161"   |  |
| Weight                 | 2.4 lbs  |  |
| Certifications         | <p>Emissions and Immunity:</p> <ul style="list-style-type: none"> <li>• FCC Class A</li> <li>• CE Class A (EU)</li> <li>• ICES-003 (Canada)</li> <li>• VCCI (Japan)</li> <li>• RCM (Australia)</li> <li>• Customs Union (CU)</li> <li>• KCC (Korea)</li> </ul>                       | <p>Safety:</p> <ul style="list-style-type: none"> <li>• UL (USA)</li> <li>• cUL (Canada)</li> <li>• EN-60950 (EU)</li> <li>• CB</li> <li>• Customs Union (CU)</li> </ul> |

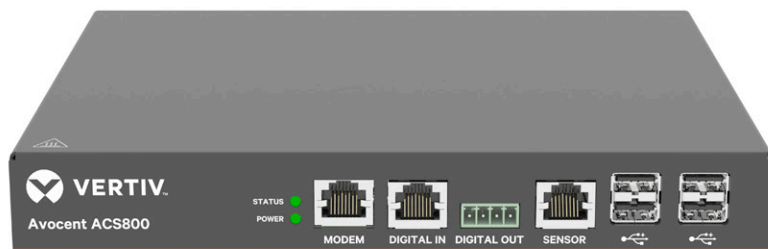
## Ordering Details

### AC Power Supply Models

| AC MODELS      | DESCRIPTION   |
|----------------|---|
| ACS802EAC-001  | ACS800 2-port unit, external AC/DC Power, US power cable          |
| ACS802MEAC-001 | ACS800 2-port unit w/analog modem, external AC/DC, US power cable |
| ACS804EAC-001  | ACS800 4-port unit, external AC/DC Power, US power cable          |
| ACS804MEAC-001 | ACS800 4-port unit w/analog modem, external AC/DC, US power cable |
| ACS808EAC-001  | ACS800 8-port unit external AC/DC Power, US power cable           |
| ACS808MEAC-001 | ACS800 8-port unit w/analog modem, external AC/DC, US power cable |

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

| GLOBAL MODELS   | DESCRIPTION  |
|-----------------|--|
| ACACS802EAC-400 | ACS800 2-port unit, external AC/DC Power, PDU power cable    |
| ACS802MEAC-400  | ACS800 2-port unit w/analog modem, external AC/DC, PDU cable |
| ACS804EAC-400   | ACS800 4-port unit, external AC/DC Power, PDU power cable    |
| ACS804MEAC-400  | ACS800 4-port unit w/analog modem, external AC/DC, PDU cable |
| ACS808EAC-400   | ACS800 8-port unit external AC/DC Power, PDU power cable     |
| ACS808MEAC-400  | ACS800 8-port unit w/analog modem, external AC/DC, PDU cable |



## Features

### Operating System

- Yochto project based Linux

### Accessibility

- Zero Touch Provisioning (ZTP)
- In-band (Ethernet) and out-of-band (dial-up/cellular modem) support
- Built-in v.92 analog modem
- Optional external 4G/LTE cellular router

### Availability

- Automatic Ethernet or Cellular failover using second GbE port for failover
- Support for multiple-routing tables
- External AC/DC power supply design
- Dual GbE Ethernet support
- USB support

### Security

- Preset security profiles-secure, moderate and open
- Custom security profiles
- IPSec support with Third-Party certificates
- X.509 SSH certificate support
- SSHv1 and SSHv2
- Local, RADIUS, TACACS+, LDA/AD authentication
- Two-factor authentication (RSA SecurID®)
- One-Time Password (OTP)

- 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 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