

# Cyclades<sup>®</sup> ACS

## Advanced Console Server



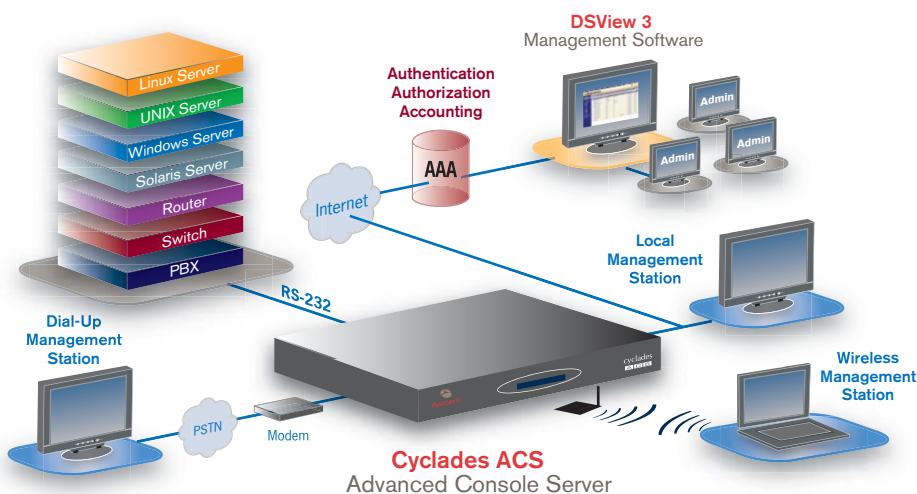
### A Complete Console Management Solution

Cyclades<sup>®</sup> ACS advanced console servers give 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<sup>®</sup> operating system, Cyclades ACS console server provides optimal performance, security and reliability. When used in conjunction with Cyclades PM intelligent power distribution unit (IPDU) and DSView<sup>®</sup> 3 management software, Cyclades ACS console server offers a secure and consolidated out-of-band management solution.

### Enhanced Security Framework

Cyclades ACS console servers offer the industry's first Enhanced Security Framework that provides preset security profiles (secure, moderate and open) and the flexibility for IT managers to customize security profiles to comply with existing network security policies. In addition, Cyclades ACS console servers offer strong authentication technology with One-Time Password (OTP) and Extensible Authentication Protocol (EAP), two features that ensure only authorized users gain access to enterprise resources.

Cyclades ACS console server also offers secure clustering for console management of up to 1,024 devices. Available in 1-, 4-, 8-, 16-, 32- and 48-port models that fit in 1U of rack space, Cyclades ACS console server helps maximize IT asset productivity while providing scalability and reducing operational costs.



### Applications

- Secure console and power management
- Server and network management
- Telco central office remote console management
- Legacy terminal server environments
- Industrial/commercial automation
- Ethernet-attached serial board replacement

### Benefits

- Industry-leading Enhanced Security Framework (adherence to security policies using preset and custom security profiles)
- Centralized administration (using DSView 3 management software)
- Highly available (dual power supply and Ethernet failover)
- Secure in-band and out-of-band network remote management
- Rock-solid stability (Linux inside and NEBS Level 3 certified)
- Power management (integrated multioutlet power control)
- Rack space savings (1U form factor)
- Windows<sup>®</sup> Server 2003 Emergency Management Services (EMS) support
- Improved network monitoring
- IPMI power management
- Flexibility to support existing and future interfaces (PC card support)

## Hardware Specifications

**CPU:** MPC855T (PowerPC dual CPU)

**Memory:** 128 MB DIMM SDRAM/128 MB compact flash  
256 MB DIMM SDRAM/128 MB compact flash (ACS48 only)

**Interfaces:** 1 Ethernet 10/100BT on RJ-45, 1 RS-232 console on RJ-45, RS-232 serial ports on RJ-45

**PC Card Slots Supporting:** Secondary Ethernet, fast Ethernet (fiber optic), wireless LAN (GSM, GPRS and CDMA), V.92 and ISDN modems, compact flash, IDE drive

**Power:** Internal 100–240 VAC, 50/60 Hz  
Optional –48 VDC power supply  
Optional dual entry, redundant AC and DC power supplies

**Power Usage:** ACS4 (16 W @ 120 VAC, 25 W @ 230 VAC)  
ACS8 (18 W @ 120 VAC, 28 W @ 230 VAC)  
ACS16 (22 W @ 120 VAC, 30 W @ 230 VAC)  
ACS32 (24 W @ 120 VAC, 32 W @ 230 VAC)  
ACS48 (26 W @ 120 VAC, 35 W @ 230 VAC)

**Operating Temperature:** ACS4, 8, 16, 32, 48  
50°F to 112°F (10°C to 44°C)

**Storage Temperature:** –40°F to 185°F (–40°C to 85°C)

**Humidity:** 5% to 90% noncondensing

**Dimensions:**  
(WxDxH) ACS 4, 8, 16, 32, 48  
17 x 8.5 x 1.75 in.  
(43.18 x 21.59 x 4.45 cm)

Weight:	Single power	Dual power
ACS4	6.5 lb (2.86 kg)	6.5 lb (2.95 kg)
ACS8	6.5 lb (2.86 kg)	6.6 lb (2.99 kg)
ACS16	6.4 lb (2.90 kg)	6.7 lb (3.04 kg)
ACS32	6.5 lb (2.95 kg)	6.9 lb (3.13 kg)
ACS48	7.9 lb (3.58 kg)	8.1 lb (3.67 kg)

Certifications*:	FCC Part 15A	EN55022, A (CE)
	EN55024	NEBS Level 3†
	UL/cUL	TUV/GS
	Japan VCCI V3/2003.4	BSMI
	CB Scheme (IEC 60950)	MIC
	S-Mark	ICES-05
	C-Tick	Solaris Ready™

\*Varies by Cyclades ACS console server model.

†Cyclades ACS16 and ACS32 DC (single and dual power supply) console server models.

Part Number	Model	Description
ATP0170	ACS4	Single power supply, AC model
ATP0175	ACS4	Single power supply, DC model
ATP0180	ACS4	Dual power supply, AC model
ATP0185	ACS4	Dual power supply, DC model
ATP0120	ACS8	Single power supply, AC model
ATP0125	ACS8	Single power supply, DC model
ATP0130	ACS8	Dual power supply, AC model
ATP0135	ACS8	Dual power supply, DC model
ATP0010	ACS16	Single power supply, AC model
ATP0015	ACS16	Single power supply, DC model
ATP0050	ACS16	Dual power supply, AC model
ATP0055	ACS16	Dual power supply, DC model
ATP0100	ACS32	Single power supply, AC model
ATP0105	ACS32	Single power supply, DC model
ATP0150	ACS32	Dual power supply, AC model
ATP0155	ACS32	Dual power supply, DC model
ATP0190	ACS48	Single power supply, AC model
ATP0210	ACS48	Single power supply, DC model
ATP0200	ACS48	Dual power supply, AC model
ATP0205	ACS48	Dual power supply, DC model

NEBS-Certified Models		
ATP0017	ACS16 NEBS	Single power supply, DC model
ATP0107	ACS16 NEBS	Dual power supply, DC model
ATP0056	ACS32 NEBS	Single power supply, DC model
ATP0156	ACS32 NEBS	Dual power supply, DC model

## Features

### Operating System

- Linux

### Accessibility

- In-band (Ethernet) and out-of-band (dial-up modem) support
- PC card slots support allows for alternative access interfaces, such as modem (v.92 and ISDN), Ethernet, fast Ethernet (fiber optic) and wireless Ethernet (GSM, GPRS and CDMA)

### Availability

- Automatic Ethernet failover using Ethernet PC card as the secondary port
- Dual power supply

### Security

- Preset security profiles – secure, moderate and open
- Custom security profile
- X.509 SSH certificate support
- SSHv1 and SSHv2
- Local, RADIUS, TACACS+, LDAP, 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
- IP packet and security filtering
- User access lists per port
- System event syslog
- IPSec with NAT traversal support
- IP forwarding support
- Secure factory defaults
- Secure clustering for up to 1,024 devices

### Console Management

- Windows Server 2003 EMS support
- Sun break-safe (Solaris Ready Certified)
- Break-over SSH support
- Offline data buffering – local or remote (NFS/Syslog)
- Level-based syslog filters
- Time stamp for data buffering
- Unlimited number of simultaneous sessions
- Simultaneous access on the same port (port sniffing)
- Clustering (central access to multiple console servers)
- Event notification (e-mail, pager, SNMP trap)
- Global time zone support

### Port Access

- Directly by TCP port, IP address or server name
- Telnet/SSH with menu
- Simultaneous Telnet and SSH access
- HTTP/HTTPS
- Bidirectional Telnet

### System Management

- Configuration wizard for first time users
- Command line interface (Linux shell)
- Web Management Interface (HTTP/HTTPS)
- SNMP

### Cabling

- CAT5 compatible adapters for simpler cabling‡

### Upgrades

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

### Additional Protocols Supported

- DHCP for dynamic IP address assignment
- PPP/SLIP for dial-up
- NTP for time server synchronization
- RFC2217 support for remote serial port access



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