

AlterPath™ ACS

Advanced Console Servers

The AlterPath™ ACS family of Advanced Console Servers provides IT professionals with additional ways to remotely access managed networks from anywhere in the world.

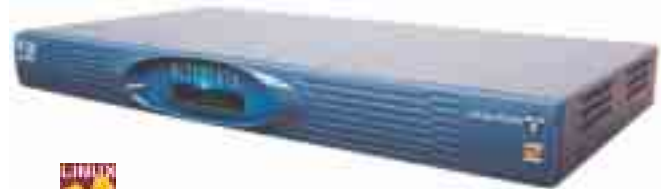
The AlterPath™ ACS offers a feature set similar to that of the Cyclades-TS line of console servers, plus advanced hardware features to meet the requirements of even the most demanding applications. PCMCIA slots allow for enhanced functionality with support for many interface cards, such as Ethernet, modem (V.90, CDMA, GPRS, GSM and ISDN) and wireless LAN. The AlterPath™ ACS' optional dual entry redundant power supply (AC/DC) provides extra reliability to the console server, ensuring availability during critical times.

Security features include secure clustering for up to 1024 devices, SSH v2 (Secure Shell), RADIUS authentication, IPSec, IP filtering, and user access lists per port. This allows the data center managers and system administrators to remotely manage the network and servers with greater control and peace of mind.

Console management features include native support for the EMS protocols included with the Windows® Server 2003, plus data buffering, direct access methods to the serial ports (such as the TCP port and server name) and event notification. This improves monitoring capabilities, allowing faster problem solving and higher network uptime.

Instead of using proprietary software technologies, the AlterPath™ ACS leverages on Open Source software (Linux), giving users the freedom to customize its operation, modifying or adding features as needed.

Available in 1, 4, 8, 16, 32 and 48-port models that fit in 1U of rack space, the AlterPath™ ACS helps maximize network and server availability while providing scalability and cost effectiveness. Using the AlterPath™ ACS for secure data center management decreases network maintenance costs while increasing efficiency and productivity.



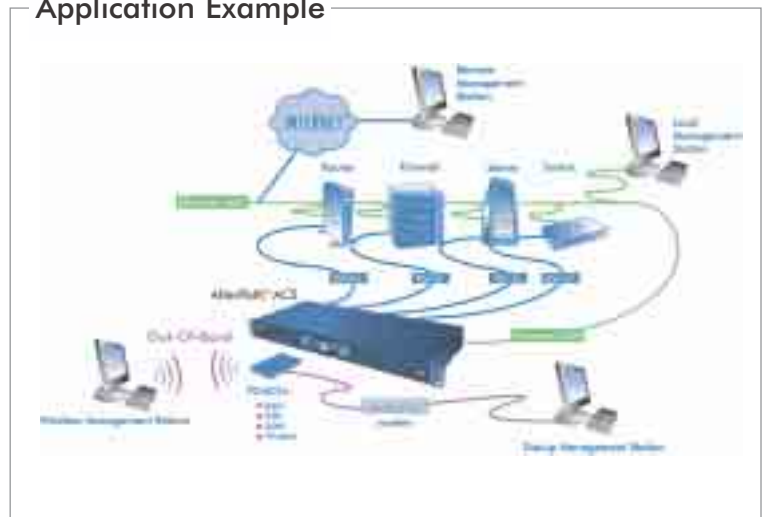
Applications:

- Console Management
- Server and Network Management
- Terminal Server
- Industrial/Commercial Automation
- Ethernet-attached Serial Board Replacement

Benefits:

- Windows® 2003 Server EMS support
- Improved reliability (dual power supply)
- Secure In-band and Out-of-band Network Management
- Rock-solid stability (Linux Inside)
- Rack space savings (1U form factor)
- Improved network monitoring
- Flexibility to support existing and future interface types (PCMCIA support)

Application Example



AlterPath™ ACS Specifications

Hardware

CPU:	MPC855T (PowerPC Dual-CPU)
Memory:	128MB DIMM SDRAM / 16MB CompactFlash 256MB DIMM SDRAM (ACS48 only)
Interfaces:	1 Ethernet 10/100BT on RJ-45 1 RS-232 Console on RJ-45 RS-232 Serial Ports on RJ-45 PCMCIA expansion supporting: Secondary Ethernet, Wireless networking, GSM, V.90 modems, ISDN
Power:	Internal 100-240VAC, 50/60 Hz or -48VDC Single/Dual entry, power supplies AC & DC
Power Usage:	ACS4 (16 watts @ 120VAC, 25 watts @ 230VAC) ACS8 (18 watts @ 120VAC, 28 watts @ 230VAC) ACS16 (22 watts @ 120VAC, 30 watts @ 230VAC) ACS32 (24 watts @ 120VAC, 32 watts @ 230VAC) ACS48 (26 watts @ 120VAC, 35 watts @ 230VAC)
Operating Temperature:	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% non-condensating
Dimensions (WxDxH):	17 x 8.5 x 1.75 in (43.18 x 21.59 x 4.45 cm)
Certification:	FCC Part 15, A EN55022, A EN55024 UL 1950 Solaris Ready™

Part Number ATP - AC/DC	Model	Description
ATP-0170 / 125	AlterPath™ ACS-4	Single Power Supply
ATP-0180 / 0185	AlterPath™ ACS-4	Dual Power Supply
ATP-0120 / 0125	AlterPath™ ACS-8	Single Power Supply
ATP-0130 / 0135	AlterPath™ ACS-8	Dual Power Supply
ATP-0010 / 0015	AlterPath™ ACS-16	Single Power Supply
ATP-0050 / 0055	AlterPath™ ACS-16	Dual Power Supply
ATP-0100 / 0105	AlterPath™ ACS-32	Single Power Supply
ATP-0150 / 0155	AlterPath™ ACS-32	Dual Power Supply
ATP-0200 / 0205	AlterPath™ ACS-48	Dual Power Supply

Features

Operating System

- Linux®

Accessibility

- In-Band (Ethernet) and Out-of-band (Dial-up modem) support
- PCMCIA support allows for alternative access interfaces, such as GSM modem, ISDN and wireless Ethernet

Security

- Secure Clustering for up to 1024 devices
- SSH v1 and v2
- Local, RADIUS, TACACS+, LDAP, NIS and Kerberos Authentication
- Token-based strong authentication (SecurID)
- Local backup user authentication support
- PAP/CHAP authentication (for dial-up lines)
- IP Packet and Security Filtering
- User Access Lists per port
- System Event Syslog
- IPSec support
- IP Forwarding Support

Console Management

- Windows® 2003 Server EMS support
- Sun break-safe (Solaris Ready™ Certified)
- Break Over SSH support
- Off-line data buffering - Local or Remote (NFS/Syslog)
- Timestamp 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 (email, pager, SNMP trap)

Port Access

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

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

Customization

- Cyclades Development Kit (CDK) available for custom applications, no charge

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

* Sold separately