AlterPath™ ACS1

Console Server

The AlterPath™ ACS1 is a powerful, yet highly compact single-port console server used to connect serial devices to a TCP/IP network. Typical applications include branch office management, console port management, retail automation and IP enabling of legacy serial devices.

Dual PCMCIA slots allows for enhanced functionality with support for many interface cards, such as Ethernet, modem (V.90, GSM, CDMA and ISDN) and wireless LAN.

The AlterPath™ ACS1 uses its PowerPC dual CPU to transfer data from its 10/100BT Ethernet interface to its RS232/RS485 (software selectable) serial interface and vice-versa, enabling communication between the serial device and the network. The AlterPath™ ACS1 supports SSHv2 (Secure Shell) for a high degree of security in data connections.

Unlike other console server equipment designed with proprietary software technologies, the AlterPath™ ACS1 leverages Embedded Linux and other Open Source software. Users have the flexibility and power to customize its operation, modifying or adding features as needed.

The AlterPath™ ACS1 has all the power and functionality necessary to take network connectivity to the next level.
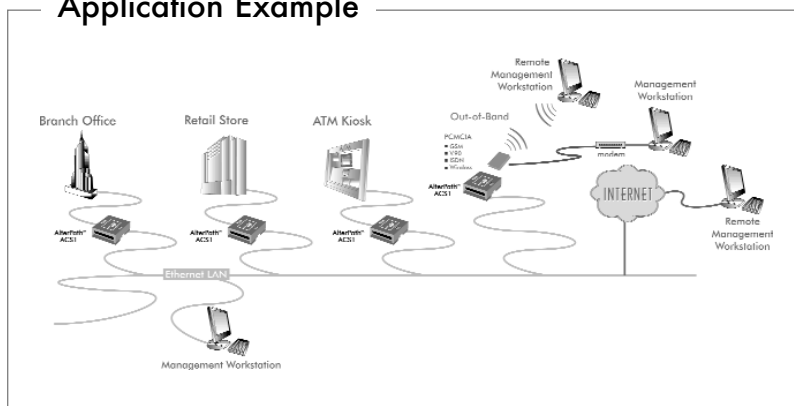
Applications:

- Branch Office Management
- Server and Network Management
- Console Management
- Retail Automation
- IP enabling of Legacy Serial Devices

Benefits:

- Secure Network Management
- Easy Integration with the Network and Serial Devices
- Flexibility to support existing and future interface types (PCMCIA support)
- Rock-solid stability (Linux Inside)

Application Example

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AlterPath™ ACS1 Specifications

Hardware

CPU:	MPC855T (PowerPC dual-CPU)
Memory:	128MB SDRAM / 16MB Flash
Features:	LED indications for Ethernet and serial port
Interfaces:	1 Ethernet 10/100BT on RJ-45
	1 RS-232 console on RJ-45
	1 RS-232 DTE on DB-9 or 1 RS-485 DTE on terminal block (software selectable, 230Kbps maximum)
	Dual PCMCIA slots supporting: Secondary Ethernet, Wireless Net, GSM, V.90 modem, ISDN
Power:	External Universal AC, 100-240VAC, 50/60 Hz, 5VDC, 5W max
Dimensions (WxDxH):	6.3 x 4.0 x 1.5in (16 x 10 x 3.8cm)
Operating Temperature:	50°F to 122°F (10° to 50°C)
Storage Temperature:	-40°F to 185°F (-40°C to 85°C)
Humidity:	5% to 90% non-condensating
Enclosure:	Steel cover
Certification:	FCC and Ce

Part Number	Model	Description
ATP0001	AlterPath™ ACS1	Console Server

Features

Operating System
- Linux®

Accessibility
- In-Band (Ethernet) and Out-of-band (Dial-up modem) support
- Dual PCMCIA slots allows for alternative access interfaces, such as GSM modem, V.90 modem, ISDN and wireless Ethernet

Security
- 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) Dial backup
- IP Packet and Security Filtering
- User Access Lists
- System Event Syslog
- IPSec support

Console Management
- 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
- Raw TCP socket access
- HTTP/HTTPS

System Management
- Configuration wizard for first time users
- Command Line Interface (Linux Shell)
- Web Management Interface (HTTP/HTTPS)
- SNMP

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
- Modbus/RTU support for industrial automation applications
- 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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