FREE 24-hour Tech Support: 724-746-5500
blackbox.com

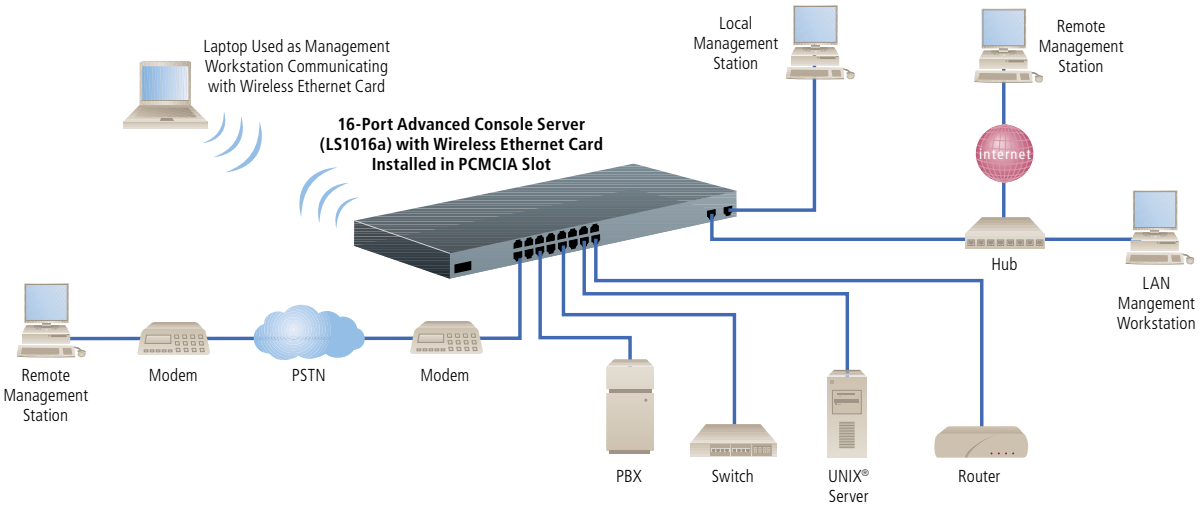
Advanced Console Servers

Ensure high availability in your mission-critical networks.

FEATURES

- Use as a terminal server, console server, and a remote access server.
- Manage clusters and server farms locally or remotely.
- Secure in-band and out-of-band control.
- IP filtering, RADIUS, and SSHv2 support.
- Power circuitry prevents spurious "breaks."
- Has two PCMCIA slots. Just add the interface cards you need.
- Dual power supplies and DC power options available on request.
- Rackmountable.

Access and manage your network locally or remotely via management station consoles, or remotely via a dialup connection independent of the network.



OVERVIEW

The BLACK BOX® Advanced Console Server provides the functionality of a terminal server, a console server, and a remote access server all rolled into a 1U rackmountable chassis.

It gives you an efficient way to conveniently and securely access your network, server farm, or data center console ports from anywhere in the world—even when the network is down.

With an Advanced Console Server, you have a reliable way to access all nodes of your network from a single location without having to move from one terminal to another.

The Advanced Console Server has 1, 4, 8, 16, 32, or 48 RS-232 serial ports for connecting to the console ports of your data center devices, plus an Ethernet LAN port for connecting to the local network backbone. In addition, the unit has dual PCMCIA slots, providing the flexibility to support both current and future interface types. Install a wireless Ethernet card, a hard disk drive, an ISDN line interface card, an internal modem card, or whatever PCMCIA compliant device you want.

Platform independent, the Advanced Console Server works with RS-232 manageable devices (including servers, switches, routers, firewalls, and more). The console server is ideal for Internet Service Providers (ISPs), Application Service Providers (ASPs), and network managers who manage a large number of console ports and must maintain a reliable link to them.

It's also a valuable tool for industrial applications where it's absolutely critical that you always have access to automated serial devices, such as sensors and alarms.

As an option, you can order the Advanced Console Server with dual power supplies to ensure its operation during critical times. If one power circuit fails, the unit server switches to the other power supply. (For more information on this option, call Tech Support.)

You can access the network several ways with the Advanced Console Server:

- Locally, via the network—from any LAN workstation, get access to the devices through the network by using Telnet or Secure Shell (SSH) sessions.
- Remotely, via the network—from anywhere in the world, establish a secure SSH connection and access the console ports to perform operations, such as BIOS configuration, OS boot message monitoring, or system power cycling.
- Remotely, independent of the network—from anywhere in the world, establish a dialup connection directly to the Advanced Console Server without having to rely on the network at all.

So, if you're off-site and you lose the in-band network route to your equipment rack, you can still reach it by dialing into the Console Port Server using a route independent of the data-carrying network.

LS1001A

LS1032A: top: front view; bottom: rear view

The RS-232 ports feature ordinary RJ-45 connectors, so you can get away with using the RJ-45 terminated cable in your network environment and not have to buy an array of serial device adapters.

The console server is secure, too. It features Secure Shell (SSH) Version 2 encryption so you can manage your infrastructure without worrying about intruders intercepting your sensitive data. And because the Advanced Console Server offers compatibility with many of today's most-popular user authentication schemes, it can be seamlessly integrated into existing security policies. In addition to SSH services, it works well with Remote Dial-In Service (RADIUS) servers, Lightweight Directory Access Protocol (LDAP) services, legacy Terminal Access Controller Access Control System (TACACS) communications, and SecurID authentication.

The Advanced Console Server protects against spurious RS-232 break signals at the console, too. This makes it the perfect in-band and out-of-band management tool for applications that rely on Sun® servers.

TECH SPECS

Approvals — UL® 1950; FCC Part 15, A; EN55022, A (CE); EN55024; Solaris Ready
Console Management — Windows® 2003 Server EMS support; Sun break-safe (Solaris Ready™ certified); Break Over SSH support; local or remote off-line data buffering (NFS/syslog); time stamp for data buffering; unlimited number of simul-taneous sessions; simultaneous access on the same port (port sniffing); secure clustering (for central access to multiple Advanced Console Servers); event notification
Memory — 128 MB DIMM SDRAM; 16 MB CompactFlash
Security & Authentication — SSHv2; IP packet and security filtering; User access lists per port, system event syslog; IPSec support; Local, RADIUS, TACACS+, LDAP, and Kerberos authentication; Token-based authentication (SecurID); Local backup user authentication support; PAP/CHAP
Connectors — All: Network: (1) RJ-45 (10BASE-T/100BASE-T); Management: (1) RJ-45 (RS-232);
LS1001A: Serial port: (1) RJ-45 (RS-232);
LS1004A: Serial ports: (4) RJ-45 (RS-232);
LS1008A: Serial ports: (8) RJ-45 (RS-232);
LS1016A: Serial ports: (16) RJ-45 (RS-232);
LS1032A: Serial ports: (32) RJ-45 (RS-232);
LS1048A: Serial ports: (48) RJ-45 (RS-232)
Temperature Tolerance — 50 to 112°F (10 to 44°C)
Humidity Tolerance — 5 to 90% noncondensing
Power — 100–240 VAC, 50–60 Hz, internal power supply
Size — LS1001A: 6.3"H x 4"W x 1.5"D (16 x 10.2 x 3.8 cm);
All others: 1.75"H (1U) x 17"W x 8.5"D (4.4 x 43.2 x 21.6 cm)

Used as a terminal server, the Advanced Console Server supports either a single IP address or a single IP address per serial port. You can also cluster multiple units to appear as one logical unit for wide area management of up to 512 ports. By virtual clustering, all ports appear grouped together as a single, high-density server that occupies only a single IP address.

Unlimited port mirroring enables any number of users to concurrently access specific consoles in both read-only and read/write modes. By distributing server-management operations this way, your team can resolve issues more quickly and bring a higher level of efficiency to your enterprise.

And you won't spend a lot of time setting up and enabling the advanced features on the Advanced Console Server. In fact, it can be configured several ways: through a Web-based GUI; by using its built-in interactive setup wizards; or via the command line interface.

What's included

- Advanced Console Server
- (2) power supply cables
- CAT5 cable
- DB25 male to RJ-45 cable for remote modem management
- DB25 loopback adapter
- DB25 male console adapter
- DB25 female console adapter
- DB9 male console adapter
- DB9 female console adapter
- Cisco/Sun® Netra console adapter
- Set of mounting brackets

Item	Code
Advanced Console Servers	
1-Port	**LS1001A**
4-Port	**LS1004A**
8-Port	**LS1008A**
16-Port	**LS1016A**
32-Port	**LS1032A**
48-Port	**LS1048A**

NOTE: 48-VDC and dual, fault-tolerant AC power supplies are also available. For more information, contact our FREE Tech Support.