



BLACK BOX[®]

NETWORK SERVICES



The BLACK BOX Console Server offers network managers a reliable and cost-effective solution to remotely manage and troubleshoot distributed server farms/racks and network appliances (routers, RAS etc). By connecting the console management ports on these network devices to the serial ports on the BLACK BOX Console Server they can be managed in-band or out-of-band via a corporate LAN/WAN or dial-in connection.

A cost effective solution for backup management of network devices

Features and Benefits:

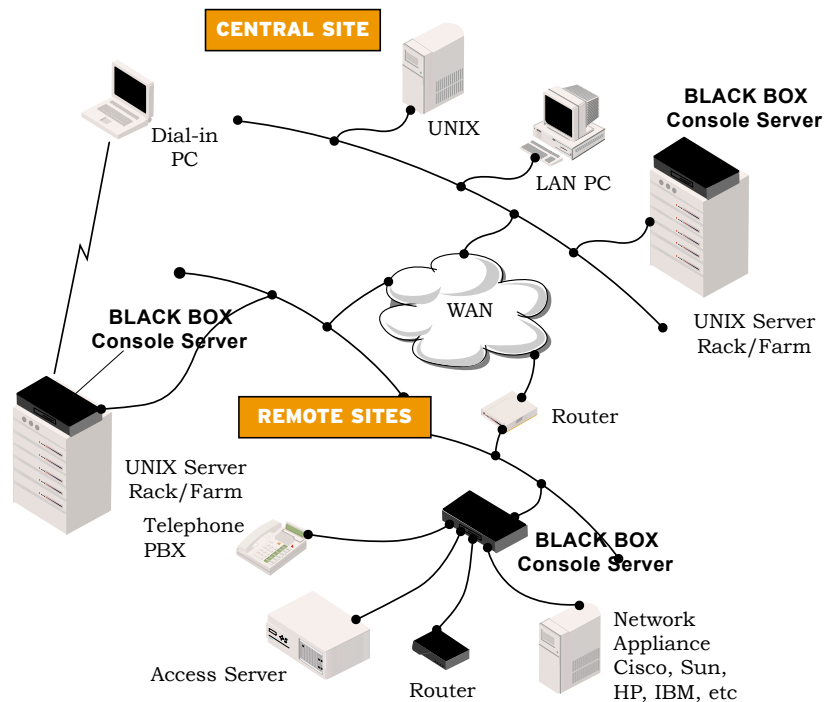
- Extremely easy to configure reducing setup time
- In and Out of Band management allowing LAN/WAN or dial in access to network devices
- SSH encryption means sensitive data is kept secure
- No break signal issued on power cycle to prevent costly Sun Server reboots
- Local or remote configuration for ease of management
- Local or remote upgrades protect investment and simplify management
- Integrated security features provide secure access to critical network devices
- 1U Rackmount keeps use of costly space to a minimum
- Standard network management integrates seamlessly with existing configuration commands
- Lifetime warranty for security and peace of mind

Application

- Server Farm Management
- Network Appliance Management including:
 - Routers
 - Remote Access Servers
 - Firewalls
 - PBX's
 - Switches

Since an administrator can connect anytime from anywhere, they save significant amounts of time and reduce overall costs by keeping system disruption to a minimum.

The Console Server provides a comprehensive suite of security features that allow organisations to implement robust security planning and prevent unauthorised access. The Console Server comes configurable for SSHv1 or SSHv2 for data encryption. Other security features include SLIP and PPP protocols (incorporating PAP and CHAP) for Remote User dial-in plus support for RADIUS authentication.



A wide array of software tools allow the Console Server to be configured, managed and flash upgraded either locally or remotely over the network or via the Internet.

Command line and menu interfaces are also included, as is a separate local management port. In addition, industry standard control and management facilities are supported – SNMP, BOOTP, DHCP and DNS.

Class Leading service and Support

The Console Server is backed by the best service and support in the industry including BLACK BOX 24/365 technical telephone support.



Technical Specifications

Connectivity

Serial Ports

- LS50116-AE model: 16 RS232 serial ports
- LS50124-AE model: 24 RS232 serial ports

Backbone LAN Attachment

- 10/100Mbps RJ45 + AUI

Management Port

- RS232 DB25 Female

Physical

Architecture

- 32 bit processor
- Custom ASICs
- Up to 230 Kbps throughput per port

Serial Port Signals/Protection

- TXD, RXD, RTS, CTS, DTR, DSR, DCD and GND
- All serial ports are ESD protected to 15kV through air

LED Indicators

- Main – Power and Network
- Serial – Send and Receive integrated into each RJ45 connector

Power, Dimensions and Weight

- Internal, auto-ranging, 110-240V
- 45 x 230 x 430 (H x L x W) (without ears)
- 2.0 kg

Environmental

- Operating Temperature: 0°C to 40°C
- Storage Temperature: -30°C to 70°C
- Operating Humidity: 5 to 95% RH (non-condensing)
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Approvals

- EMC: EN55022 Class A, FCCA
- Safety: CSA 22.2.950, NRTL/C, IEC 950, EN60950
- CE Approval
- Solaris Ready

Software

Administration

Local or Remote management using:

- Command Line
- Menu Command Interfaces
- JETset Web-based configuration utility

Network Protocols

- TCP/IP, UDP, ICMP, SNMP, ARP, Proxy ARP, RARP, DHCP, BOOTP, RIP and Static Routing, SSH, PPP, SLIP, CSLIP, TELNET, RLOGIN, CLEAR TCP HTTP, WINS, DNS

Remote Access and Security

- SSH v1 and v2 supported
- Support for up to 20 different modem types initialisation strings
- RADIUS authentication (RFC2058)
- RADIUS accounting (RFC2059)
- PAP
- CHAP
- Fixed and Roaming Callback

Client Software Requirement

- Administrator's client system must be capable of SSH or Telnet over a TCP/IP network

Upgrades

FLASH update via:

- Network using BOOTP, DHCP or TFTP
- Local management port using Jetload

Warranty

- One year warranty

Ordering Information:

Item No:	Description:	Price/pcs:
LS50116-AE	Console Server - 16-ports	23.850:- SEK □
LS50124-AE	Console Server - 24-ports	27.890:- SEK □
SPEC026839	SUN Ultra X adapter - RJ45/DB25	90:- SEK □
SPEC026840	SUN Netra Cable - 3 meter	120:- SEK □

