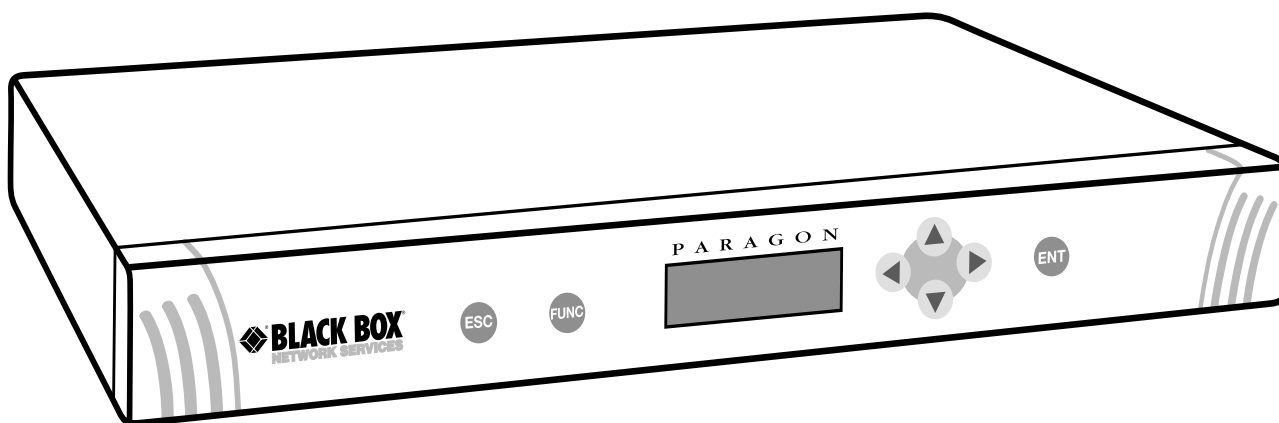# BLACK BOX®
NETWORK SERVICES

ServSwitch Paragon

Key Features

▶ 1U design supports 2, 4, 8, 16 users, up to 64 servers

▶ Expandable up to 64 users

▶ Expand to more than 2,000 servers

▶ 19" rack mounting brackets included

▶ Locate users and computers up to 200m apart

▶ Simple plug and play, auto-configure installation

▶ Hot-swappable components

▶ Platform-specific CIMs for PS/2, Sun, USB, serial devices

▶ User Station supports both PS/2 and Sun keyboards

▶ Supports high-resolution video 1280x1024@85Hz

▶ Powerful on-screen user interface for simple operation

▶ Customized user profiles, up to 127

▶ Flexible, multi-level security for authorized server access

▶ Three system operation modes: Private mode--exclusive user control of selected computer
▶ PublicView mode--users can share video of selected computer
PC-Share mode--users can share operation of selected computer

Flash firmware upgrades

Add remote access over IP or modem with ServSwitch TeleReach
▶

▶ Seamless compatibility with Paragon Ready™ products such as Z-Series™ and IBMx330 with C2T technology
▶

The enterprise-class solution for centralized server management
The SerSwitch Paragon family of server management systems represents a major advancement in KVM switch technology and performance, perfectly suited for today's enterprise-class data centers. Paragon is an intelligent, modular system that enables multiple simultaneous users to achieve secure out-of-band access and control of multi-platform servers. Plug and play components are connected using Category 5 UTP cable, extending the maximum distance between users and servers to 200m.

Total Data Center Management … anywhere, anytime
Paragon enables new levels of cost-effective scalability with the introduction of 2-user 16-ports and 2/4-user, 42-port Matrix Switching Units, in addition to the 8-user, 32-port and the 16-user 64-port models. When combined with BLACK BOX's RemoteReach remote network interface, and other Paragon Ready™ products, Paragon addresses today's need for high performance access to all data center devices, anywhere, anytime, without compromising data security -- a concept we call Paragon-Centric Total Data Center Management.

Paragon Applications
Paragon's modular design satisfies the most challenging server management requirements: meeting space, distance and capacity needs, eliminating any single point of failure, supporting scalable growth, and reducing total cost of ownership in the data center. It is designed to be the perfect infrastructure component for today's high-density server environments, including:

• corporate data centers
• server farms
• co-location facilities
• Web hosting facilities
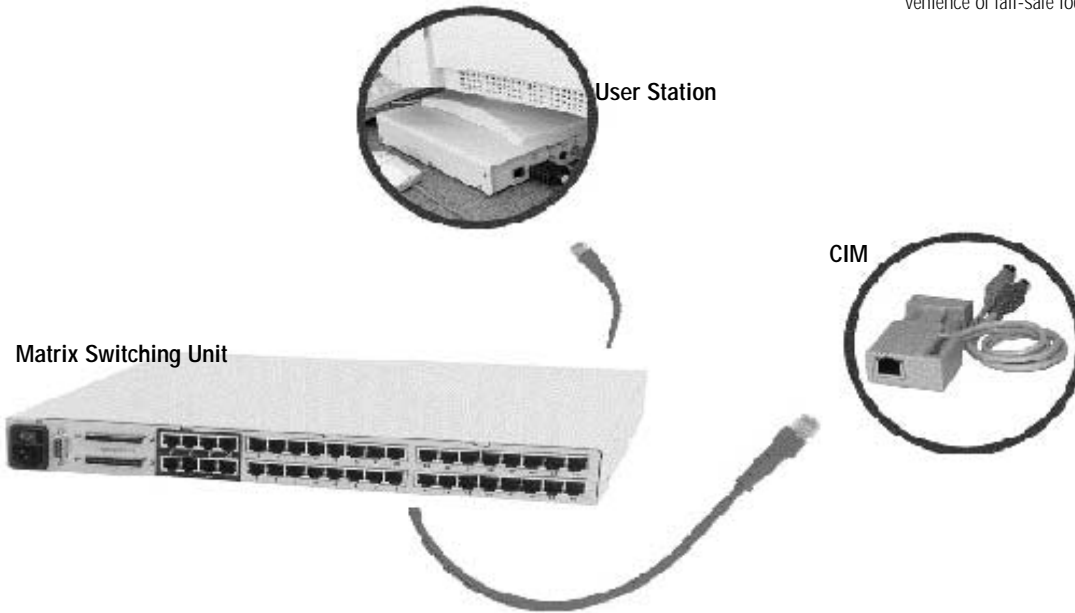• ISPs, ASPs
• HW/SW test labs

System Architecture

Paragon distributes the switching and control functions across three modular, intelligent building blocks.

Matrix Switching
Unit. An intelligent, non-blocked control module that connects users to servers. Its high port density and streamlined design with RJ45 connectors is ideal for densely packed racks.

User Station.
Connects each user console (keyboard, monitor, and mouse) to the Matrix Switching Unit. It is designed to fit conveniently under the monitor.
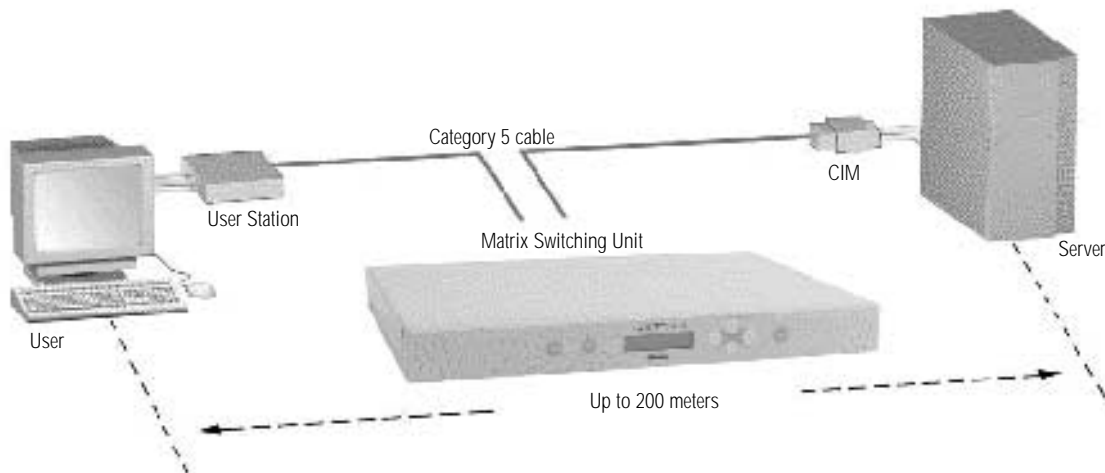
Computer Interface Module (CIM).
Provides keep-alive keyboard/mouse emula-tion at the server. Just plug it into the server's keyboard, monitor, and mouse ports and connect it to the Matrix Switching Unit with a single Category 5 UTP cable. CIMs also provide the convenience of fail-safe local server access.

User Station

CIM

Matrix Switching Unit

Paragon Innovations

Paragon is a modular server management system that includes an impressive array of innovations that set it apart from traditional KVM switches. These include:

• Modular architecture that effectively distributes KVM switching functions to intelligent components, to satisfy space, distance, and capacity requirements and eliminate any single point of failure;

• Cat. 5 UTP cable connections, enabling extended distances between users and servers up to 200m apart, replacing costly, hard-to manage, distance-limited coaxial cable;
• High port-density and compact rack design, resulting in significantly greater rack-space utilization than alternative enterprise KVM solutions;
• Easy set-up and administration, featuring plug and play set-up, without

the need for additional software or knowledge workers;
• Scalable and expandable, so all enterprise-class environments can now enjoy the benefits of Cat. 5 cabling and modular architecture;
• Continuous server availability, providing every connected server with keep-alive emulation and fail-safe server access;
• Secure, seamless server access for

authorized users with multi-level security, cross-platform compatibility and operating system independence; and
• Total choice of access method, with the maximum reliability and security of direct Cat 5 connections within 200m, and the ability to add 128-bit SSL-encrypted access over IP with BLACK BOX Remote Reach.

Category 5 cable

CIM

User Station

Matrix Switching Unit

Server

User

Up to 200 meters

Specifications

KVS831AE (Matrix Switching Unit; 16-User, 64-Channel)
Dimensions — (WxDxH) 438mm x 276mm x 89mm
Weight — 5.44 kg
Power — 100V/240V 47/63 Hz 0.6A

KVS832AE (Matrix Switching Unit; 8-User, 32-Channel)
Dimensions — (WxDxH) 437mm x 265mm x 44mm
Weight — 3.7 kg
Power — 100V/240V 47/63 Hz 0.5A

KVS833AE (Matrix Switching Unit; 4-User, 42-Channel)
Dimensions — (WxDxH) 437mm x 265mm x 44mm
Weight — 3.82 kg
Power — 100V/240V 47/63 Hz 0.6A

KVS834AE (Matrix Switching Unit;
2-User, 42-Channel)
Dimensions — (WxDxH) 437mm x 265mmx 44mm
Weight — 3.8 kg
Power — 100V/240V 47/63 Hz 0.6A

KVS835AE (Matrix Switching Unit; 2-User (1 local), 16-Channel)
Dimensions — (WxDxH) 437mm x 265mmx 44mm
Weight — 3.6 kg
Power — 100V/240V 47/63 Hz 0.5A

KVS801A-U (User Station)
Dimensions — (WxDxH) 290mm x 255mm x 44mm
Weight — 1.9 kg
Power — 100V/240V 50/60 Hz 5VA

Computer Interface Modules (CIMs) — Transmitters
KVS801A-PL for PC with RJ45 jack, plus local PC KVM ports

Dimensions — (WxDxH) 108mm x 91mm x 23mm
Weight — 0.3 kg

KVS801A-P for PC (direct connect) with RJ45 jack
KVS801A-PX for PC (direct connect) with Two RJ45 jacks
Dimensions — (WxDxH) 50mm x 80mm x 27mm
Weight — 0.16 kg
KVS801A-AL for ASCII device RJ45 jack, plus local PC KV ports
Dimensions — (WxDxH) 108mm x 91mm x 23mm
Weight — 0.3 kg

KVS801A-PL for Sun RJ45 jack, plus local Sun KVM ports
Dimensions — (WxDxH) 108mm x 91mm x 23mm
Weight — 0.3 kg

KVS801A-UL for USB RJ45 jack, plus local PC KVM ports
Dimensions — (WxDxH) 108mm x 91mm x 23mm
Weight — 0.3 kg

KVS801A-PX for PC Connects to one Computer; expand up to 16 Users
Dimensions — (WxDxH) 62mm x 89mm x 27mm
Weight — 0.16 kg

KVS801A-U for USB (direct Connect)
Dimensions — (WxDxH) 108mm x 91mm x 23mm
Weight — 0.3 kg

Black Box Network Services - The world's largest network services company

We are, with 25 years of experience, the world leader in network infrastructure services.

On the Phone — no charge, answer calls in less than 20 secounds, find the right product with our technical experts.
On-site — superior design and engineering, Certified installations, end-to-end service.

On-line — receive techincal knowledge on-line, including technology overviews, BLACK BOX Explains and the Knowledge Box.

Most comprehensive TECHNICAL SUPPORT — our best Product! Free hotline TECH SUPPORT!

The world's best customer service — Custom design services and products, the best warranties, money-saving discount programs.

Black Box exclusives — Certification Plus. Guaranted-for-life products and services.

▼ *Ordering information*

ITEM	CODE
ServSwitch Paragon	
Paragon Base Unit 2 User, 16 Computer, incl. 19" Rackmount Kit	KVS835AE
Paragon Base Unit 2 User, 42 Computer, incl. 19" Rackmount Kit	KVS834AE
Paragon Base Unit 4 User, 42 Computer, incl. 19" Rackmount Kit	KVS833AE
Paragon Base Unit 8 User, 32 Computer, incl. 19" Rackmount Kit	KVS832AE
Paragon Base Unit 16 User, 64 Computer, incl. 19" Rackmount Kit	KVS832AE
Paragon User Station	KVS811AE
Rackmountkit for Paragon User Station	KVS801A-RMK
Computer Interfacemodules	
Computer Interfacemodule	KVS801A-P
with local KVM Port	KVS801A-PL
1 PC, expand up to 16 Users	KVS801A-PX
1 PC, expand up to 32 Users	KVS801A-P1
1 PC, expand up to 64 Users	KVS801A-P2
IBM x330 1U	KVS801A-X
IBM x330 1U, LK	KVS801A-XL
8 PCs, expand up to 16 Users	KVS842AE
8 PCs/SUN, expand up to 32 User	KVS843AE
ASCII Terminal Devices	KVS01A-AL
one USB Console Port	KVS801A-UL
one USB PC	KVS801A-U
CPU-Adapter, SUN HD15	KVS801A-SH
CPU-Adapter, SUN 13W3	KVS801A-SW