



# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### ServSwitch Summit



#### Key Features

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

#### The enterprise-class solution for centralized server management

The ServSwitch Summit family of server management systems represents a major advancement in KVM switch technology and performance, perfectly suited for today's enterprise-class data centers. Summit 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

Summit enables new levels of cost-effective scalability with the introduction of 2-user 16-ports and 4-user, 42-port Matrix Switching Units, in addition to the 8-user, 32-port and 16-User, 64-port model. When combined with BLACK BOX's RemoteReach remote network interface, and other compatible products, Summit addresses today's need for high performance access to all

data center devices, anywhere, anytime, without compromising data security -- a concept we call Summit Total Data Center Management.

#### Summit Applications

Summit award-winning 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

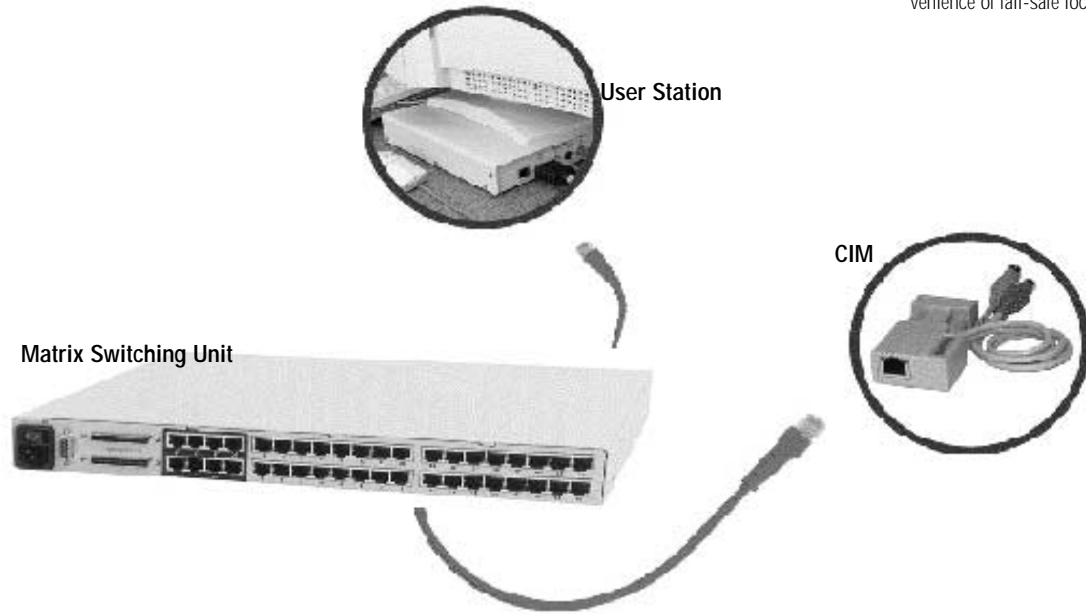
## System Architecture

Summit 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.

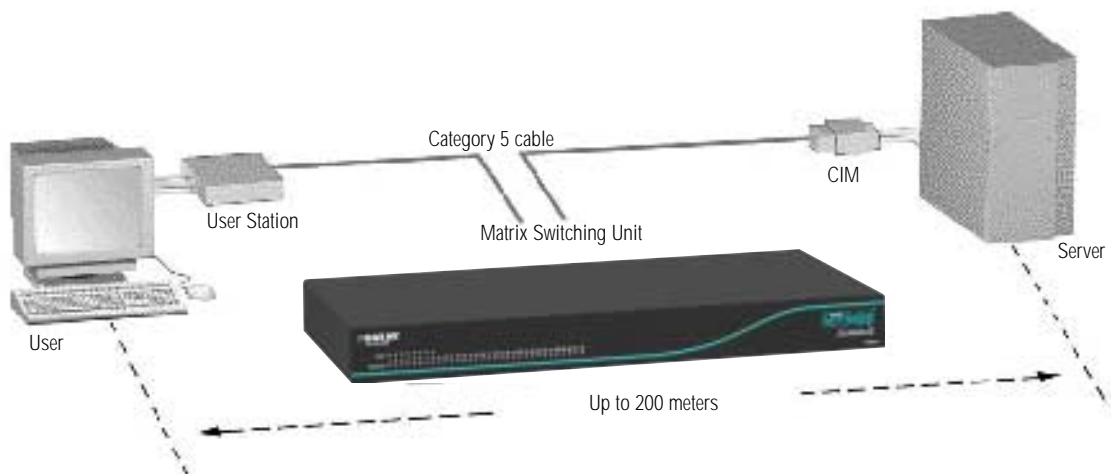
**Computer Interface Module (CIM).** Provides keep-alive keyboard/mouse emulation at the server. Just plug it into the server's keyboard, monitor, and mouse ports and connect it to the Matrix Switching Unit with a single Category 5 UTP cable. CIMs also provide the convenience of fail-safe local server access.



## Summit Innovations

Summit 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.



## Specifications

### **KV1503A (Matrix Switching Unit; 2-User (1 Local), 16-Channel)**

**Dimensions** — (WxDxH) 445mm x 265mm x 44mm

**Weight** — 5.4 kg

**Power** — 100V/240V 47/63 Hz 0.5A

### **KV1502A (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

### **KVS1501A (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

### **KV1500A (Matrix Switching Unit; 2-User, 42-Channel)**

**Dimensions** — (WxDxH) 437mm x 265mm x 44mm

**Weight** — 3.8 kg

**Power** — 100V/240V 47/63 Hz 0.6A

### **KV1510A (User Station)**

**Dimensions** — (WxDxH) 290mm x 255mm x 44mm

**Weight** — 1.9 kg

**Power** — 100V/240V 50/60 Hz 5VA

### **KVS1515A for PC (direct connect) with RJ45 jack**

**Dimensions** — (WxDxH) 50mm x 80mm x 27mm

**Weight** — 0.16 kg

**KV1518A for ASCII device** RJ45 jack, plus local PC KV ports

**Dimensions** — (WxDxH) 108mm x 91mm x 23mm

**Weight** — 0.3 kg

### **KV1517A 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 seconds, find the

right product with our technical experts.

**On-site** — superior design and engineering, Certified installations, end-to-end service.

**On-line** — receive technical 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. Guaranteed-for-life products and services.

## Ordering information

| ITEM  | CODE     |
|---|----------|
| <b>ServSwitch Summit</b>                    |          |
| Summit Base Unit 2 User, 42 Computer .....  | .KV1500A |
| Summit Base Unit 4 User, 42 Computer .....  | .KV1501A |
| Summit Base Unit 8 User, 32 Computer .....  | .KV1502A |
| Summit Base Unit 16 User, 64 Computer ..... | .KV1503A |
| Summit User Station .....                   | .KV1510A |
| <b>Computer Interfacemodules</b>            |          |
| Computer Interfacemodule .....              | .KV1515A |
| ASCII Terminal Devices .....                | .KV1518A |
| USB -Adapter Type A .....                   | .KV1517A |
| CPU-Adapter, SUN HD15 .....                 | .KV1516A |
| ZeroSerie Computer Interface .....          | .KV1519A |