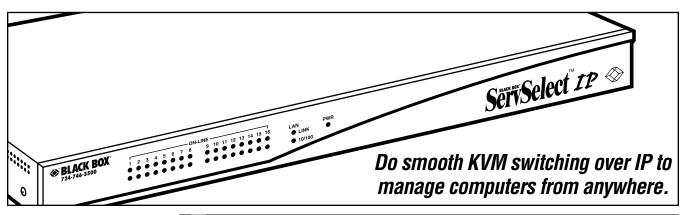


SERVSELECT IP



Key Features

- ► IP-based multiplatform KVM switching for global server control.
- Supports one local user and one or two remote users at the same time.
- ► Uses CAT5 cabling to connect to as many as 16 computer CPUs.
- ► CPUs can be PS/2, USB, or Sun compatible.
- Supports resolutions up to 1600 x 1280 for the local user or 1280 x 1024 for remote users.
- Included software for remote users.
- Attach ServSwitch Multi Z8s to reach more CPUs.

The servers go down. They call you. You drive into work, sit down at a KVM-switch user station, and send a simple set of commands to reboot the system. You drive home. So much for your other evening or weekend plans...

Sound familiar? Ever wonder why no one's managed to work out KVM-switch technology that would let you manage your servers from home—or, for that matter, from anywhere you need to be?

That technology is here at last. The ServSelect™ IP encodes video, keyboard, and mouse data into IP packets and sends it down the hall or across the globe to logged-in users running a copy of the ServSelect IP's included software.

We offer two ServSelect IP models. Both models support one local analog user station, but one model (product code KV120A for the 120-VAC version or KV120E for the 230-VAC version) supports only one connection at a time to a remote digital user station, while the other (KV121A and KV121E)

supports two simultaneous remote digital connections.

Each ServSelect IP has sixteen RJ-45 CPU ports from which you can run CAT5 cables to the locations of your computer CPUs and other devices. At the device end, the CAT5 cables connect to the CPUs through Server Access Modules (SAMs) that plug directly into the CPUs' keyboard, video, and mouse ports.

SAMs come in IBM® PS/2® (KV125A), USB (KV126A), and Sun® (KV127A) models. (The Sun model is designed for VGA video; legacy Sun video will require an adapter.) All models have built-in memory that retains the assigned name and/or ID number of the attached server. This simplifies configuration (the system can rediscover the device names if computers are moved around) and enhances security (people can't gain unauthorized access by swapping cables). SAMs are powered directly by the CPU and provide "Keep Alive" mouse and keyboard verification even if the ServSelect IP isn't powered.

A local analog monitor, keyboard, and mouse can be plugged directly into the back of the ServSelect IP. The top video resolution and refresh rate at this station is 1600 x 1280 at 75 Hz.

Remote digital users reach the system through IP connections to the 10 or 100BASE-T Ethernet LAN to which the ServSelect IP is attached. The top resolution and refresh rate at these stations is 1280 x 1024 at 75 Hz.

No special software or drivers are required on the switched computers, but in order to access the ServSelect IP system, digital users need to connect from a Windows based PC running a copy of the included software.

User PCs can be located anywhere they can make a valid Internet IP connection. This means that the ServSelect IP can be configured on a separate network from your other devices, allowing access to your servers even if your main applications network is down.

(continued on page 2)

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(continued from page 1)

The ServSelect IP's software is a cross-platform management application; see the the list of compatible operating systems in the User Controls specification). It allows remote users to view video output from, and exercise keyboard/mouse control over, the ServSelect IP and all attached servers. The software supports secure authentication, data

transfers and username/ password storage.

Because it has a browser interface for navigation with an intuitive split-screen display, the software gives users a single point of access for your entire system. While running it, they can configure or manage the ServSelect IP or launch a video session to a system server. Multiple servers can be accessed by each remote user; each CPU's

video appears in a separate pane.

If you need to control more than sixteen IBM compatible CPUs, you can create a cascaded system by attaching ServSwitch Multi Z8s (KV158A for the 120-VAC model, KV158AE for the 230-VAC model) to your ServSelect IP. Just run CAT5 cable to the Z8 and attach a SAM to its user-port connectors, the same way you would attach a CPU. Run ServSelect cables (EHN056) from

the Z8 to the additional CPUs, and they'll be accessible to the local user or to remote users in the same way a directly attached CPU would be.

The ServSelect IP has a dedicated serial port for firmware upgrades. It also comes with mounting hardware if you want to put it in a standard 19" equipment

Specifications

Compliance:

EMI/RFI: CE (EN55022 Class A EN55024, EN61000-3-3); FCC Part 15 Subpart B Class A, IC Class/classe A; VCCI Class A; Electrical safety: IEC950, EN60950, UL® 1950/60950 third edition, CSA C22.2 No. 950

Standards:

Video: VGA, SVGA, XGA, XGA-2; supports Plug and Play DDC2B:

LAN: IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet

Interfaces:

CAT5 to SAMs and CPUs: Proprietary composite of VGA video and IBM PS/2 keyboard and mouse:

Video to local analog monitor: VGA:

Analog keyboard and mouse (to local user station): IBM PS/2 compatible;

LAN: 10BASE-T/100BASE-T; Serial: EIA/TIA RS-232 pinned as TIA-574 (IBM PS/2 compatible)

Video Characteristics:

Maximum resolution and refresh

To local user station: 1600 x 1280 at 75 Hz;

To remote user stations: 1280 x 1024 at 75 Hz:

Sync: Separate horizontal and vertical

Maximum Distance:

KVM:

32.8 ft. (10 m) of CAT5 cabling from ServSelect IP to any attached CPU or Z8;

50 ft. (15.2 m) of total cabling between local analog user station and any attached CPU or Z8;

Serial: 50 ft. (15.2 m) to attached device;

LAN: 328 ft. (100 m) to the next device

User Controls:

Included software (runs on Windows NT® 4.0 Workstation or Server SP6a; Windows® 2000 Workstation or Server SP2, Windows XP® Home and Professional, or version 7.1 or higher of RedHat® Linux®);

(1) Rear-mounted rocker switch for power

Indicators:

On-screen in included software; Front-mounted LEDs:

(2) for each CPU port: (1) for CPU power, (1) for CPU selection:

(1) for LAN link integrity;

(1) for LAN data rate (10/100 Mbps);

(1) for device power

Connectors: All rear-mounted:

(16) RJ-45 female to SAMs and CPUs;

(1) HD15 female to local monitor; (2) 6-pin mini-DIN female to local

keyboard and mouse; (1) RJ-45 female to LAN;

(1) DB9 female to serial port or device

Temperature Tolerance:

Operating: 50 to 122°F (10 to 50°C); Storage: -4 to +140°F (-20 to +60°C)

Humidity Tolerance:

Operating: 20 to 80% noncondensing; Storage: 5 to 95% noncondensing Thermal Dissipation: 92 BTU/hr.

Airflow Through Chassis: 8 cfm (0.2 m3/min.)

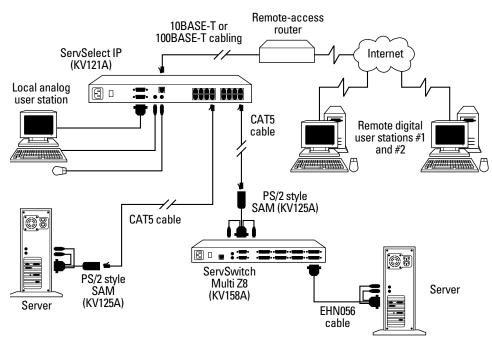
Power: From AC outlet through detachable power cord to rearmounted IEC 320 male inlet: Input: 100 to 240 VAC, 50 to 60 Hz (autosensing) at up to 1 amp (40 W maximum input power); Consumption: 25 W output power

Size: 1.75"H (1U) x 17"W x 11"D (4.4 x 43.2 x 27.9 cm)

Weight: 8 lb. (3.6 kg)

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Keep your computers behind locked doors—even the computers that aren't directly on your LAN—and exercise keyboard and mouse control from wherever you happen to be.



Ordering Information	
ITEM	CODE
ServSelect™ IP	
For one analog user and one digital user	KV120A
For one analog user and two digital users	KV121A
ServSelect IP Server Access Modules (SAMs)	
PS/2 style ([1] HD15 male, [2] 6-pin mini-DIN male)	
USB style ([1] HD15 male, [1] USB Type A male)	
Sun VGA style ([1] HD15 male, [1] 8-pin mini-DIN male)Adapter for legacy Sun video (HD15 female to 13W3 male)	KV12/A
You might also need: CAT5 UTP to LAN or for KVM links to SAMs and CPUs (24-AWG stranded, 4-pair, PVC)	
Unterminated bulk cable, 250 ft. (76.2 m) Terminated patch cable (molded RJ-45 male to male, TIA-568B, straight-through-pinned, specify I	EVNSL05A-0250 length)EVNSL25
ServSwitch Multi Z8	
120 VAC	
230 VAC	
ServSelect Cable (to attach CPUs to the Z8), 8 ft. (2.4 m)	EHN056-0008
Data-line surge protectors	005104 00
Keyboard and mouse (6-pin mini-DIN female to male)	SP519A-K2
10/100BASE-T (RJ-45 female to male)RS-232 (DB9 male to female)	
Call Black Box Tech Support for help determining your best options for AC-power protection.	A-N2

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