

ServSelect™ III

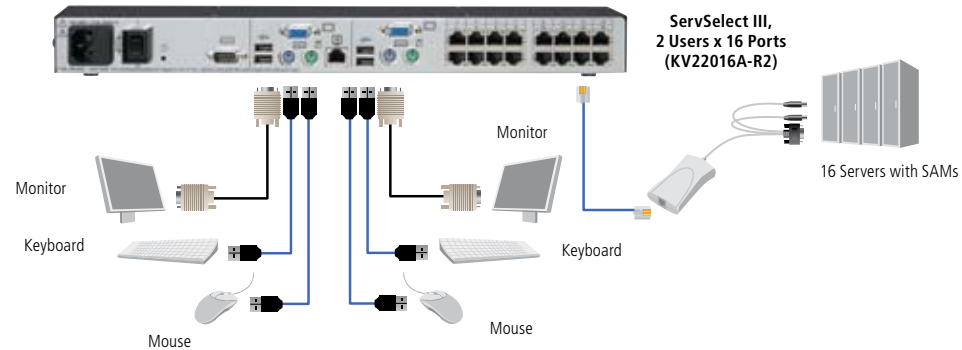
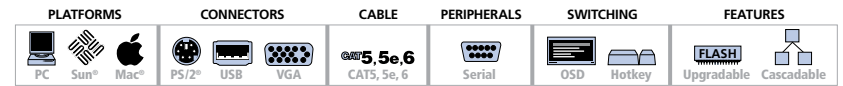
Two users can simultaneously
access up to 256 servers
connected by CAT5 cable.



FEATURES

- » Works in PS/2 or USB server environments or with serial VT100™ devices.
- » Both models support PS/2 keyboards and mice.
- » The KV22016A-R2 also supports USB keyboards and mice.
- » On-screen menus enable easy setup and operation.
- » Next-generation user interface enhances user access and future firmware upgrades.
- » Compatible with low-cost CAT5 cable.
- » Cascade one user to two users.
- » Password protection.
- » View servers three different ways.
- » Resolution up to 1280 x 1024 at 75 Hz.
- » Rackmountable.

Access up to 256 servers, and eliminate bulky cables in your server room.



OVERVIEW

The ServSelect™ III makes it easy for 2 users to access and switch between up to 8 or 16 servers from a PS/2 console. Plus the KV22016A-R2 also works with USB consoles. Just cascade multiple ServSelect III units to add even more servers. In a cascaded setup, 2 users can access up to 128 servers (with multiple 8-port models) or as many as 256 servers (with a string of 16-port switches).

The ServSelect III uses a Server Access Module (SAM) or low-cost, nonflashable ServSelect III Cable to connect to the server or other target device. The SAMs and cables provide keyboard, video, and mouse connectivity, and enable you to connect the switch to servers with PS/2 or USB connectors, or to devices with serial connectors.

The distance between the ServSelect III and the servers determines whether you use the ServSelect III Cable or the SAMs. To connect to servers less than 15 feet (4.6 m) away, order the cables. These thin integrated cables save you equipment space at both the switch and the server. But if your servers or devices are more than 15 feet (4.6 m) away, you'll need the SAMs.

Each ServSelect III Cable or ServSelect SAM features built-in memory to simplify configuration by assigning and retaining unique server names and electronic IDs (EIDs) for each attached server. It's powered from the server and stays powered even if the ServSelect III is powered off.

If you use the SAMs for server connections, you'll also need CAT5 cable to link them to your ServSelect III. All ServSelect SAMs are flash upgradable to keep your system up to date.

We even carry an adapter that enables you to connect the ServSelect III to older Sun™ units (via the USB style ServSelect III Cables or ServSelect SAM).

GUI capabilities.

ServSelect III's graphical user interface (GUI) is one of the simplest ever to use—and one of the most versatile, too.

Start with the way you configure your system and how you identify servers. ServSelect III's menus enable you to identify servers by unique name, ID number, or port number.

You select individual servers using these operational modes: broadcast, scan, and switch.

In broadcast mode, you can simultaneously control more than one server in a system to send identical input to all selected servers. You can even broadcast keystrokes and/or mouse movements independently.

In scan mode, automatically scan from server port to server port. In this way, you can scan up to 16 servers. Add servers to the scan list, remove them, or start the scan mode via the software interface.

In switch mode, you can connect to servers using preemptive or cooperative methods. Select preemptive mode to allow any user to select any server at any time. A request from another user

disconnects the current user without warning. Cooperative mode maintains the current user connection. If another user requests a connection, the current user won't be disconnected.

Superb security.

ServSelect III's GUI has intuitive menus to configure your switch system. Up to four users and one administrator can log into it, and the administrator has the ability to restrict users from accessing KVM switching functions and/or certain servers connected to the ports. Using the security menu, the administrator can edit, access, and/or delete user accounts.

The GUI also enables you to select security on your analog port console. A screen saver activates after the period of inactivity you specify. To re-access the OSD, press any key or move the mouse, then enter your password.

The choice is clear.

Many KVM switches promise clear video, but few deliver like the ServSelect III does. ServSelect III provides optimal resolution for analog VGA, SVGA, and XGA video. It can achieve resolutions of up to 1280 x 1024 @ 75 Hz with a 10-foot (3-m) CAT5 cable and up to 800 x 600 @ 75 Hz with a 50-foot (15.2-m) CAT5 cable.

In addition, the ServSelect III also supports Display Data Channel Plug-and-Play, which automates monitor configuration and complies with the VESA DDC2B standard.

Easy to upgrade.

A null-modem serial cable is included to make the switch/server connections more convenient for upgrades. And the ServSelect III's firmware is flash upgradable—and therefore future-proof—so it never has to be replaced. And that will save you a ton of money down the road!

TECH SPECS

Airflow — 8 cfm

Compliance — CSA C22.2 No. 950; EN55022 Class A, EN55024, EN60950, EN6100-3-3, EN6200-3-2; FCC 15 Class A; IEC 950; UL® 1950/60950 Third Edition; VCCI Class A

CPUs Supported — IBM® PC/AT®, PS/2, USB, and compatibles

Heat Dissipation — 92 BTU per hour

Peripherals Supported — Both models: Microsoft® IntelliMouse®, PS/2 style keyboard and mouse, Microsoft Explorer mouse, IBM Scrollpoint® mouse, Kensington® 4-button mouse, Logitech® Mouseman+®, Marble Plus, and Marble FX mice;

The KV22016A-R2 also supports USB keyboards and mice

Resolution (Maximum) — 1280 x 1024 @ 75 Hz with 10-ft. (3-m) cable; 800 x 600 @ 75 Hz with 50-ft. (15.2-m) cable

Video Supported — DDC2B, VGA, SVGA, XGA (XGA2 with adapter)

Connectors —

Analog users:

Keyboard and mouse: Both: PS/2: (4) 6-pin mini DIN F;

KV22016A-R2 also: USB: (4) USB Type A F;

Video: (2) HD15 F (VGA);

CPUs/servers: KV22008A: (8) RJ-45;

KV22016A-R2: (16) RJ-45;

For cascading: (1) RJ-45;

Configuration port: (1) DB9 M (RS-232);

Power: (1) IEC 320

Indicators — (33) LEDs on front of unit: (1) dual-state Power LED that shows activity, (16) CPU powered, (16) Select port;

(33) LEDs on back of unit: (2) Link for each of the (16) RJ-45 ports,

(1) Power indicates that power supply is on

Temperature Tolerance — Operating: 50 to 122°F (10 to 50°C)

Humidity Tolerance — 20 to 80%, noncondensing

Power — 100–240 VAC, 50–60 Hz, autosensing

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)

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application. Don't waste time and money—call Black Box today.



KV22016A-R2: Top: front view;
bottom: rear view

What's included

- ◆ ServSelect III (2 Users x 8 Ports or 2 Users x 16 Ports)
- ◆ Power cord
- ◆ Null-modem serial cable
- ◆ Rackmounting brackets
- ◆ Installer/user's guide
- ◆ Quick-installation guide

Technically Speaking

CAT5: When more isn't always better.

In data communications applications, using products that exceed required capacities is usually not a problem. For example, if a 28.8-kbps modem is required, a 33.6-kbps or 56-kbps modem will work just fine.

But sometimes more isn't better. For instance, KVM switches are designed to expect CAT5 and only CAT5 cable. You'd probably guess that CAT3 cable wouldn't be effective with these products, and you'd be right. But you may also assume that if CAT5 cable works just fine, CAT5e, CAT6, and other higher-capacity cables would work even better. This isn't the case.

KVM switches from many manufacturers, including our ServSelect III, are designed specifically for the CAT5 specs defined by the TIA/EIA standard. Higher-level cables, such as CAT5e, have different characteristics and specs. Although differences like twist ratios might seem small, they can have a negative impact on these extenders, which are expecting a true CAT5 transmission.

So with our ServSelect III, you can think big with CAT5—just don't think bigger.

Item

Code

ServSelect III	
2 Users x 8 Ports	KV22008A-R2
2 Users x 16 Ports	KV22016A-R2
<i>To connect to servers less than 15 feet (4.6 m) away, you need...</i>	
PS/2 Style ServSelect III Cables ([1] HD15 Male, [2] 6-Pin Mini-DIN Male, [1] RJ-45 Male)	
7-ft. (2.1-m)	EHN21000PS2-0007
10-ft. (3-m)	EHN21000PS2-0010
15-ft. (4.6-m)	EHN21000PS2-0015
USB Style ServSelect III Cables ([1] HD15 Male, [1] USB Type A Male, [1] RJ-45 Male)	
7-ft. (2.1-m)	EHN21000USB-0007
10-ft. (3-m)	EHN21000USB-0010
15-ft. (4.6-m)	EHN21000USB-0015
<i>To connect to servers more than 15 feet (4.6 m) away, order...</i>	
ServSelect Server Access Modules (SAMs)	
PS/2 Style	
([1] HD15 Male, [2] 6-Pin Mini-DIN Male)	KV125A
USB Style	
([1] HD15 Male, [1] USB Type A Male)	KV126A
Serial	
([1] DB9 Female)	KV123A
<i>You may also need...</i>	
Adapter for Legacy Sun Video	
([1] HD15 Female to [1] 13W3 Male)	ACD002-R2
Power Supply for KV123A	PS123A
<i>To connect your ServSelect III to a SAM, order...</i>	
CAT5 Solid-Conductor Cable (UTP), 100-MHz, 24 AWG, 4-Pair, T568B, PVC, NEC® CMR, Straight-Pinned	EYN737MS

NOTE: Legacy Sun video connections require the ACD002-R2 adapter.

NOTE: The VT100 Style Server Access Module (KV123A) requires a power supply (PS123A).