

ServSelect III VM

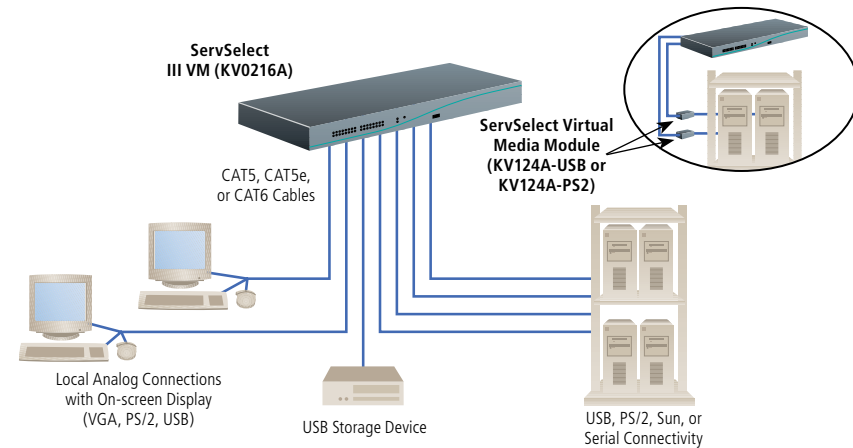
Connect 2 users, 16 servers,
and up to 9 USB virtual media
devices to this ServSwitch.



FEATURES

- » Supports USB virtual media connections such as generic removable media and CD drives.
- » PC, Sun, Mac®, and serial device support.
- » Video resolutions can reach 1280 x 1024.
- » Has virtual media capability for two local users.
- » Includes user peripheral ports for PS/2 and/or USB keyboards and mice.

Access virtual media devices (such as USB storage drives) attached to the ServSelect III VM.



OVERVIEW

The **ServSelect III VM** integrates analog keyboard, video, and mouse (KVM) switching technology with advanced cable management, access for two simultaneous users, and an easy-to-use interface. The **ServSelect™** also provides virtual media support that's ideal for mid-size data centers.

The **ServSelect III VM** has user peripheral ports for PS/2 and/or USB keyboards and mice. Connect virtual media such as generic removable media and CD drives.

Server access modules (SAMs) with VT100 style ports, PS/2 and VGA ports, USB 2.0 and VGA ports, or Sun and VGA ports are available to link VT100, PS/2, USB, or Sun servers to the **ServSelect III VM**.

Link 2 local users, 16 servers, and up to 9 virtual media devices to the ServSelect. It's designed with 16 RJ-45 server ports on the back of the unit. It also has 9 USB connectors: 8 on the back of the unit and one on the front. To attach a server to each of the **ServSelect III VM** unit's 16 server ports, you'll need a Server Access Module (SAM) and an RJ-45 patch cable.

The **ServSelect** unit's PS/2 or USB KVM ports connect to two local users. (The unit has [2] HD15 F connectors for the PS/2 and/or USB local user monitor connection. It also has [2] 6-pin mini-DIN F connectors for each PS/2 local user's keyboard/mouse and [2] USB Type A F connectors for each USB local user's keyboard/mouse.)

If you have two PS/2 local users connected to the **ServSelect**, you can use all 9 USB ports for virtual media connections. Share the VM devices between the 2 local users and all 16 servers.

However, if you have one local PS/2 user and one local USB user, two of the nine USB ports will be used for the local USB user's keyboard-mouse connection. In that case, only seven USB ports on the **ServSelect** will be available to connect to virtual media devices. Likewise, if you have two local USB users connected to the **ServSelect**, four of the nine USB ports will be used for the local USB user's keyboard-mouse connections. Then, only five USB ports on the **ServSelect** can be used to connect to virtual media devices.

You can even cascade up to three levels of **ServSelect** units for a total of 256 servers. (Each **ServSelect** has an RJ-45 interconnect port and an RJ-45 network port; the remaining 16 RJ-45 ports can be used for server connections.)

The on-screen display (OSD) menus provide a convenient user interface. The OSD interface's main window is used to select a target device to connect to the **ServSelect**.

OSD interface status symbols indicate SAM online, SAM offline, target device cascaded through another **ServSwitch**, SAM upgrade, user channel accessing the SAM, and user channel blocking the SAM.

You can set a screen delay to specify the length of time that elapses between when you press Print Screen and when the OSD interface starts.

Several key combinations or mouse actions start the OSD interface, perform a screen capture for a target device, display help for the current window, close the current window without saving changes and return to the previous window, or save changes and return to the previous window. They also select a target device to be scanned, complete a switch in the main window and exit the OSD interface, return to the previously selected target device, disconnect the user from the selected target device, or start the screen saver immediately and lock out the user if it is password-protected. And, the keyboard combinations or mouse actions move the cursor from line-to-line in a list, move text in a field when editing, page through a list or help window, move the cursor to the top or bottom of a list, or delete selected characters in a field or the selected item in the scan list.

Three operation modes are available: Scan, Broadcast, and Switch modes.

In Scan mode, the [ServSelect](#) automatically scans from server port to server port. This mode determines which servers will be scanned, how long (in seconds) that each server's information will be visible, and monitors the servers' activity.

In Broadcast mode, you can simultaneously control more than one server to ensure that all selected servers receive the same input.

In Switch mode, either user can select and share any server at any time.

You can also control your [ServSelect III VM](#) system via the ServSelect DB9 console configuration port. Connect an async terminal or computer running terminal emulation to this port. Console main menu options allows you to configure network settings (network speed, static DHCP address, IP address, netmask, and default gateway).

Use one virtual media module for each USB computer that you want to connect to the [ServSelect](#). A VM SAM addresses keyboard, mouse, CD drive, and mass storage device.

The VM SAM presents the keyboard and mouse as a composite USB 2.0 device, but keep its limitations in mind. For example, the BIOS must support a composite USB 2.0 device. If the BIOS of the connected computer doesn't support this type of device, the keyboard and mouse might not work until the operating system loads USB 2.0 device drivers. In this case, there might be a BIOS update provided by the computer manufacturer that will provide BIOS support for a USB 2.0 connected keyboard and mouse.

Connect a control station with up to a 10-foot (3-m) cable to the [ServSelect III VM](#) for 1280 x 1024 resolution for analog VGA, SVGA, and XGA. If you use a longer cable, the maximum resolution will be less. For example, if the cable is 50 feet (15.2 m) long, the maximum resolution is 800 x 600.

Technically Speaking

USB VM

A ServSwitch™ with built-in USB Virtual Media (VM) can be directly connected to USB media storage devices such as flash drives or external hard drives. USB VM enables you to share these devices with all servers connected to the switch.

For example, if you connect a USB flash drive to a VM-enabled ServSwitch, you can transfer data back and forth between the flash drive and any server connected to the switch! And because you don't have to connect the flash drive to each individual server, you save time performing file transfers, patches, and diagnostics.



KV0216A: top: front view;
bottom: rear view

TECH SPECS

Compliance — UL®, FCC Class A, cUL, ICES-03 emissions, CE, VCCI Class A

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

Sync Types — Separate horizontal and vertical

Cabling Supported — 4-pair UTP CAT5 or CAT6, 30 feet
(9.1 m) maximum length

Mice Supported — IBM® Scrollpoint®, Kensington® 4-button, Logitech Marble
FX, Logitech® MouseMan® Wheel, Logitech TrackMan® Marble Wheel,
Microsoft® IntelliMouse®, Microsoft Explorer

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

Video Supported — VGA

Heat Dissipation — 105 BTU/hr.

Airflow — 8 cfm

Connectors —
Analog users: Keyboard and mouse: (4) 6-pin mini-DIN F;
Video: (2) HD15 F;
USB media devices: (9) USB 2.0 Type A F;
Servers: (16) RJ-45;
Interconnect: (1) RJ-45
Network: (1) RJ-45 for Ethernet based management, such as SNMP
Serial port: (1) DB9 M (RS-232) for Flash-ROM upgrades;
Power: (1) IEC 320

Indicators — (35) LEDs on front of unit: (1) LAN Link, (1) LAN 10/100,
(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: 32 to 122°F (0 to 50°C);
Storage: -40 to +140°F (-40 to +60°C)

Humidity Tolerance — Operating: 20 to 80%, noncondensing;
Storage: 5 to 95%

Power — Input: 100 to 240 VAC, 50 to 60 Hz, autosensing,
40 watts maximum; 0.5 amps RMS maximum;
Power consumption: 30 watts

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)

Item	Code
ServSelect III VM 2 Users x 16 Ports	KV0216A
For servers supporting virtual media, order by keyboard and mouse type...	
ServSelect Virtual Media Modules USB Style, ([1] RJ-45 Male, [1] USB Type A Male)	KV124A-USB
PS/2 Style, ([1] RJ-45 Male, [2] 6-Pin Mini-DIN Male)	KV124A-PS2
For servers supporting KVM connections only...	
ServSelect Server Access Modules VT100™ Style	KV123A
PS/2 Style ([1] RJ-45 Male, [2] 6-Pin Mini-DIN Male, [1] HD15 Male)	KV125A
USB Style ([1] RJ-45 Male, [1] USB Type A Male, [1] HD15 Male)	KV126A
Sun® Style ([1] RJ-45 Male, [1] 8-Pin Mini-DIN Male, [1] HD15 Male)	KV127A
You may also need...	
Power Supply for VT100 Server Access Module	PS123A