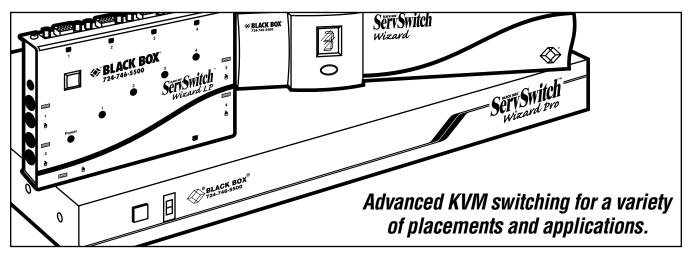


Black Box Corporation.

BLACK BOX NETWORK SERVICES

Black Box Corporation • 1000 Park Drive • Lawrence, PA 15055-1018 • Tech Support: 724-746-5500 • www.blackbox.com • e-mail: info@blackbox.com

SERVSWITCH WIZARD SOLUTIONS



Key Features

- ► <u>All models:</u> Handle resolutions up to 1600 x 1280.
- Powered from interface or optional power supply.
- <u>Wizard</u>: Supports DDC, flash-upgradable.
- Wizard LP: Small, light, can be placed almost anywhere.
- Wizard PRO: Menus enable easy configuration and operation.
- ► <u>Wizard MP</u>: Works with PCs, Sun, and Macintosh.
- ► <u>Wizard DVI</u>: Supports DVI video cards with up to four outputs.

The ServSwitch™ Wizard

I (SW651A–SW652A) is designed to be placed on desktops and to look great there. But it's not just for show—it's a sophisticated switch that can support Display Data Channel (DDC) PC-tomonitor communication and whose firmware can be flash-upgraded. Two or more Wizards can even be synchronized to support CPUs with multiple video outputs.

The **ServSwitch Wizard LP** (SW641A–SW642A) is a little over an inch (2.5-cm) thick and measures 6.6"W by 4.8"D (16.8 x 12.2 cm). It's so tiny that we ship it with VELCRO® strips, so you can stick it on the wall!

In addition, we offer Wizard and Wizard LP models in kits (add "-K" to the product codes). They include all the premium KVM user cables and keyboard and mouse port adapters you'll need.

The **ServSwitch Wizard PRO** (SW644A, SW648A) can be placed in a 19" rack with its Rackmount Kit (RMK19WP). Even if you put it

on the desktop, it's sturdy enough to go under a monitor or other device. It has a powerful onscreen menu system.

The **ServSwitch Wizard MP** (KV804A–KV805A) is a high-performance multiplatform keyboard-, monitor-, mouse-, and audio-sharing device that supports a wide range of IBM® PC and Sun® compatible hardware and software platforms, including some high-end PS/2® compatible computers (RS/6000®, Compaq® Alpha®, and SGI™).

The KV805A model also supports computers with USB keyboard and mouse ports, including USB versions of the Apple® Macintosh® G3™ and G4™. The Wizard MP enables control of up to four devices.

Like the Wizard MP, the ServSwitch Wizard DVI enables control of high-end PS/2 compatible computers (IBM RS/6000, Compaq Alpha, and SGI). This ServSwitch is specifically designed to work with Digital Visual Interface (DVI) video. It

comes in several models.

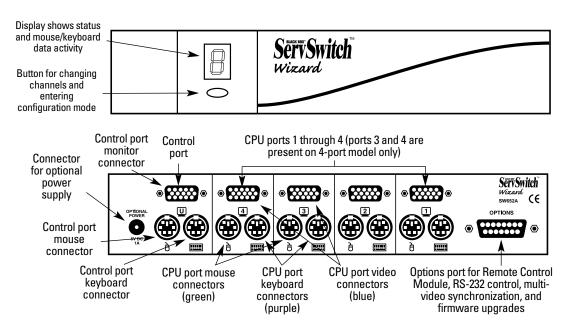
The 2-Port (KV1002A) and 4-Port (KV1004A) Single-Head models support DVI video cards with a single video output.

The 2-Port (KV1022A) and 4-Port (KV1024A) Dual-Head models support DVI video cards with up to two video outputs. They also support user stations with either dual monitors or a single monitor that can combine dual video feeds into a single image.

The 2-Port (KV1042A) and 4-Port (KV1044A) Quad-Head models support DVI video cards with up to four video outputs. They also support user stations with either as many as four monitors or a single monitor that can combine as many as four video feeds into a single image.

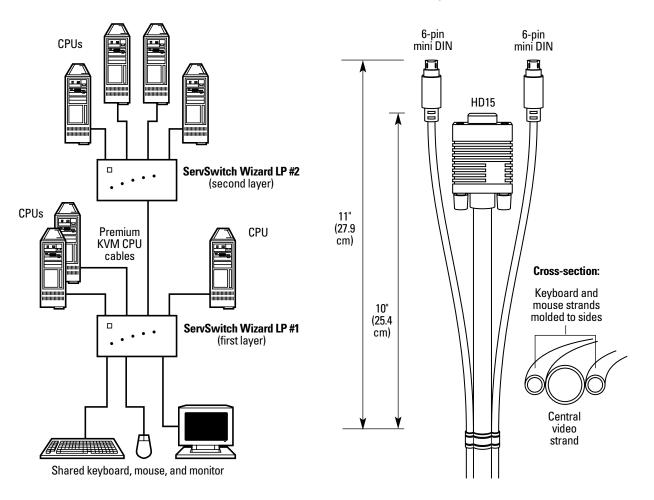
All models include support for video resolutions up to 1600 x 1280, multiple channel-switching methods, auto-scanning, screen blanking, cascading, and keyboard commands (using any of several possible hotkeys).

The ServSwitch Wizard is flash-upgradable, supports DDC, and has sleek desktop styling.

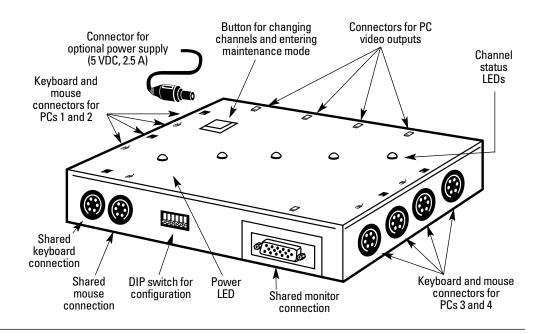


Control as many as four or eight PCs with one Wizard family switch, or cascade switches to control more.

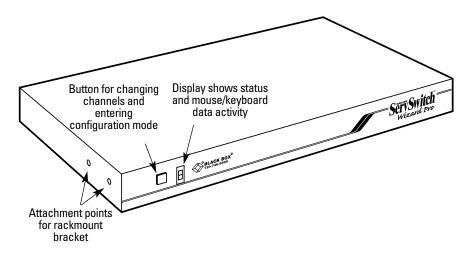
You can use Premium KVM Cables (EHN408, EHN409) to run most Wizard family device connections to greater distances.

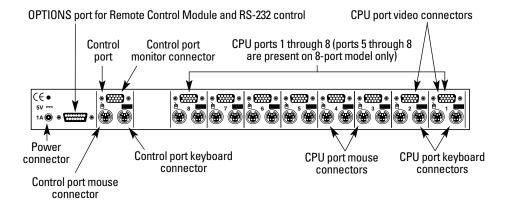


The ServSwitch Wizard LP (4-port model shown here) packs a ton of useful components into the least possible space.

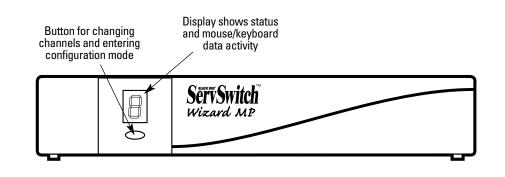


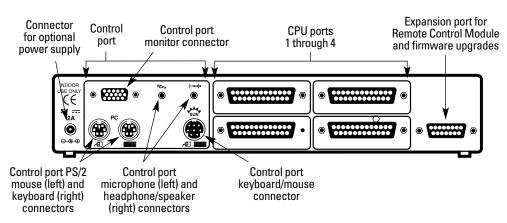
The ServSwitch
Wizard PRO does
everything the
Wizard LP does, and
also has a powerful
on-screen menu
system and a frontpanel 7-segment
display. It's even
tough enough to
put a monitor on
top of.



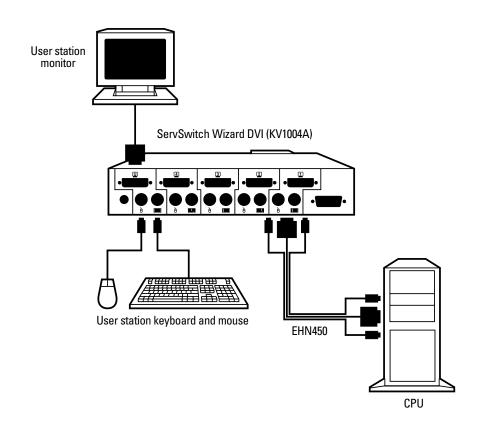


The ServSwitch
Wizard IMP for PC
and Sun (KV804A
model shown here)
is a KVM- and audiosharing device that
supports a wide
range of IBM PC
and Sun compatible
hardware and
software platforms.





The ServSwitch Wizard DVI (4-port single-head model shown here) can support DVI video cards with up to four video outputs. They also support user stations with as many as four monitors.



Specifications

Compliance: Wizard, Wizard LP, Wizard PRO: CE (EN55022 Class B), FCC Part 15 Subpart B Class A, IC Class/ classe A; Wizard MP, Wizard DVI:

CE (EN55022 Class A), FCC Part 15 Subpart B Class A, IC Class/classe A

Distance (Maximum):

All models except Wizard DVI: 2 m (6.5 ft.) if interfacepowered or 10 m (32.8 ft.) if AC-powered to any attached keyboard, monitor, and mouse;

Wizard, Wizard PRO, Wizard MP: 5 m (16.4 ft.) if interfacepowered or 30 m (98.4 ft.) if AC-powered to any attached CPU or cascaded KVM switch;

Wizard LP: 10 m (32.8 ft.) if interface-powered or 30 m (98.4 ft.) if AC-powered to any attached CPU or cascaded KVM switch;

Wizard DVI: 5 m (16.4 ft.) to any attached CPU or cascaded KVM switch

Resolution: All: Up to 1600 x 1280 noninterlaced at up to 100 Hz; Wizard DVI: With video cards and monitors that support composite images transmitted on multiple heads, the KV1022A and KV1024A can support up to 2400 x 1600 and the KV1042A and KV1044A can

RS-232 Characteristics of OPTIONS Port (Wizard, Wizard PRO, Wizard MP, Wizard DVI):

support up to 3200 x 2400

Protocol: Asynchronous; Data format: 8 data bits, no parity, 1 stop bit; Data rate: 1200 bps;

Data rate: 1200 bps Flow control: None

Standards: Wizard, Wizard LP, Wizard PRO, Wizard MP: VGA, SVGA, XGA, XGA-2, SXGA, or UXGA video;

Wizard MP: Also supports VESA DDC, DDC1 and DDC2 signaling;

Wizard DVI: DDC2B signaling

Interface:

Wizard, Wizard LP, Wizard PRO: Video: VGA; Keyboard and mouse: IBM PS/2 compatible; with appropriate adapters, also supports IBM PC/AT® keyboards, CPUs with PC/AT keyboard ports, and CPUs with TIA/EIA RS-232 mouse ports;

OPTIONS port (Wizard, Wizard PRO): TIA/EIA RS-232 proprietarily pinned on DB15;

Wizard MP:

Video: VGA; Kevboard and mouse:

yboard and mouse:
Both models: IBM PS/2 or
Sun compatible; with
appropriate adapters,
also supports IBM
PC/AT keyboards,
CPUs with PC/AT
keyboard ports, and
CPUs with TIA/EIA
RS-232 mouse ports
KV805A only: USB;

Audio: 3.5-mm stereo; OPTIONS port: TIA/EIA RS-232 proprietarily pinned on

Wizard DVI:

DB15:

Video: Digital Video Interface; Keyboard and mouse: IBM PS/2 or compatible; with appropriate adapters, also supports CPUs with TIA/EIA RS-232 mouse norts:

OPTIONS port: TIA/EIA RS-232 proprietarily pinned on DB15

User Controls:

All models:

Keyboard commands; mouse-click functions;

Wizard, Wizard PRO, Wizard MP, Wizard DVI: (1) front-mounted pushbutton for channel change and configuration mode;

Wizard LP:

(1) top-mounted pushbutton for channel change and maintenance mode;

Wizard, Wizard MP only:
(1) bottom-mounted 8-position
DIP switch for reset and
firmware upgrade;

Wizard PRO only: On-screen menu:

Wizard DVI only: (1) bottommounted 8-position DIP switch for bootup autoswitching, reset, and firmware upgrade; optional Remote Control Module for channel change; optional serial commands for channel change and multichassis synchronization

Connectors:

Wizard, Wizard PRO, Wizard MP, Wizard DVI: (1) rear-mounted barrel jack for optional powersupply connection; (1) multipurpose DB15 F:

Wizard LP: (1) side-mounted barrel jack for optional power-supply connection;

Wizard, Wizard PRO, Wizard LP: User nort:

(1) HD15 F for monitor attachment;

(2) 6-pin mini-DIN F for keyboard and mouse attachment;

CPU ports ([2] on SW641A, SW651A; [4] on SW642A, SW644A, SW652A; [8] on SW648A), each consisting of:

(1) HD15 F for video port attachment;

(2) 6-pin mini-DIN F for keyboard port and mouse port attachment;

Wizard MP:

User port:

(1) HD15 F for monitor attachment;

(1) 8-pin mini-DIN F for Sun keyboard and mouse attachment;

(2) 6-pin mini-DIN F for PS/2 keyboard and mouse attachment;

(2) 3.5-mm stereo audio jacks: (1) for microphone attachment, (1) for speaker or headphone attachment;

CPU ports: (4) DB25 F composite:

Wizard DVI:

User port:

(2) 6-pin mini-DIN F for keyboard and mouse attachment;

Molex DVI-D F for monitor attachment: ([1] on KV1002A, KV1004A; [2] on KV1022A, KV1024A; [4] on KV1042A, KV1044A);

CPU ports ([2] on KV10x2A models; [4] on KV10x4A models), each consisting of:

(2) 6-pin mini-DIN F for keyboard and mouse attachment;

Molex DVI-D F for video port attachment: ([1] on KV1002A, KV1004A; [2] on KV1022A, KV1024A; [4] on KV1042A, KV1044A)

Indicators:

Wizard, Wizard PRO, Wizard MP,
Wizard DVI: (1) front-mounted
7-segment status display;
Wizard LP: All top-mounted:
(1) Power LED;
SW641A: (2) Port (Channel)
LEDs;
SW642A: (4) Port (Channel)
LEDs

Enclosure:

Wizard, Wizard MP, Wizard DVI: Steel, aluminum, and plastic; Wizard LP, Wizard PRO: Steel and aluminum

Temperature Tolerance: 32 to 104°F (0 to 40°C)

Humidity Tolerance: 5 to 60%, noncondensing

Altitude (Maximum): 10,000 ft. (3048 m)

Power

All models except Dual- and Quad-Head Wizard DVI:

• 5 VDC at up to 500 mA from the keyboard interfaces of the attached computers, or

 From the optional power supply PS649 (not included): 100–240 VAC, 50–60 Hz from power outlet, through detachable power cord and IEC 320 M inlet, to external transformer;

Dual- and Quad-Head Wizard
DVI only: From power supply
PS649 (not included): 100—
240 VAC, 50—60 Hz from power
outlet, through detachable
power cord and IEC 320 M
inlet, to external transformer

Size:

Wizard, Wizard MP, Wizard DVI: 1.75"H (1U) x 10.3"W x 5.9"D (4.4 x 26.2 x 15 cm); Wizard LP: 1.1"H x 6.6"W x 4.8"D (2.8 x 16.8 x 12.2 cm); Wizard PRO: 1.75"H (1U) x 17.1"W x 8.1"D (4.4 x 43.4 x 20.6 cm); connectors protrude an additional 0.2" (0.5 cm) from the rear of the unit, for a total depth of 8.3" (21.1 cm)

Weight:

Wizard, Wizard MP, Wizard DVI: 2.2 lb. (1 kg); Wizard LP: 1 lb. (0.5 kg); Wizard PRO: 3.2 lb. (1.5 kg)

Ordering Information		
ITEM COI	DE	
ServSwitch™ Wizard	_	
2-Port		
StandaloneSW65	1A	
4-Port		
StandaloneSW65:	2Α	
ServSwitch Wizard LP		
2-Port		
StandaloneSW64	.1Δ	
Kit		
4-Port		
StandaloneSW64	.2Δ	
KitSW642A		
ServSwitch Wizard PRO	\ I\	
4-PortSW64	Λ٨	
8-Port SW64		
ServSwitch Wizard MP for PC and Sun	0A	
4-PortKV80	4Λ	
4-Port with USBKV80	AC	
ServSwitch Wizard DVI		
Single-Head		
2-PortKV100		
4-PortKV100	4A	
Dual-Head (Augustian Control of the		
2-PortKV102		
4-PortKV102-	4A	
Quad-Head		
2-PortKV104		
4-PortKV104	4A	
<u>If you need an external DC power supply, order</u>		
Optional Power Supply (100 to 240 VAC input, 5 VDC/1 A output)PS6	349	
To connect the Wizard, Wizard LP, or Wizard PRO to your CPUs, order		
Premium KVM CPU Cable (to connect CPUs)		
10-ft. (3-m)EHN408-00)10	
20-ft. (6.1-m)EHN408-00)20	
30-ft. (9.1-m)EHN408-00		
To extend the distance between your control station (keyboard/monitor/mouse) and the Wizard, Wizard LP, or Wizard PRO, order		
Premium KVM User Cable (to extend distance to user stations)		
10-ft. (3-m)EHN409-00)10	
20-ft. (6.1-m)EHN409-00		
30-ft. (9.1-m)EHN409-00		
00 16 (0.1 III)	,00	
(continued)		

First Firs	Ordering Information (continued)		
FS/2 to USB Flash Cable	,	CODE	
FS/2 to USB Flash Cable	For PS/2 to USB connections		
For PS/2 to Sun ennections		FHN428-0006	
PS/2 to Sun 8-Pin Mini-DIN Flash Cable		EIIIV+20 0000	
To connect the Wizard MP to your CPUs, order		EHNIA30 0006	
Wizard MP KVM CPU Cables with Audio PS/2 66-ft. (2-m) EHN825-0006 16.4-ft. (5-m) EHN825-0016 Sun 66-ft. (2-m) EHN826-0006 16.4-ft. (5-m) EHN826-0016 USB 66-ft. (2-m) EHN827-0006 16.4-ft. (5-m) EHN827-0016 Dc connect the Wizard DVI to your CPUs, order. Wizard DVI CPU Cables Single-Head Switch 3-ft. (9-m) EHN450-0003 6-ft. (1.8-m) EHN450-0001 10-ft. (3-m) EHN450-0001 10-ft. (3-m) EHN460-0003 6-ft. (1.8-m) EHN460-0003 6-ft. (1.8-m) EHN460-0003 6-ft. (1.8-m) EHN460-0001 10-ft. (3-m) EHN460-0001 0-ft. (1.8-m) EHN460-0001 0-ft. (1.8-m) EHN470-0003 6-ft. (1.8-m) EHN470-0003 6-ft. (1.8-m) EHN470-0000 10-ft. (3-m) EHN470-0003 6-ft. (1.8-m) EHN470-0003 10-ft. (3-m) EHN470-0003 6-ft. (1.8-m) EVNDVI03-0006 10-ft. (3-m) <td></td> <td>LI IIV425-0000</td>		LI IIV425-0000	
PS/2 6.6-ft. (2-m)			
6.6-ft. (2-m)			
16.4-ft. (5-m)		EHN825-0006	
Sun 6.6-ft. (2-m)			
6.6-ft. (2-m)	· ·	E1114025 0010	
16.4-ft. (5-m)		FHN826-0006	
USB 6.6-ft. (2-m)			
6.6-ft. (2-m)	,		
16.4-ft. (5-m) EHN827-0016 To connect the Wizard DVI to your CPUs, order Wizard DVI CPU Cables Single-Head Switch 3-ft. (0.9-m) EHN450-0003 6-ft. (1.8-m) EHN450-0010 Dual-Head Switch 3-ft. (0.9-m) EHN460-0010 Dual-Head Switch 3-ft. (1.8-m) EHN460-0010 Oual-Head Switch 3-ft. (1.8-m) EHN460-0003 6-ft. (1.8-m) EHN460-0003 6-ft. (1.8-m) EHN460-00010 Oual-Head Switch 3-ft. (0.9-m) EHN460-00010 Oual-Head Switch 3-ft. (1.8-m) EHN470-0003 6-ft. (1.8-m) EHN470-00010 To extend the distance between the Wizard DVI and your monitor, order DVI-D Male-DVI-D Female Extension Cable 6-ft. (1.8-m) EVNDVI03-0006 10-ft. (3-m) EVNDVI03-0010 To extend the distance between the Wizard DVI and your keyboard or mouse, order 6-Pin Mini-DIN Cable 2-ft. (0.8-m) EVMPS03-0002-MF 3-ft. (0.9-m) EVMPS03-0003-MF 6-ft. (1.8-m) EVMPS03-0003-MF 6-ft. (1.8-m) EVMPS03-0000-MF 10-ft. (3-m)		FHN827-0006	
To connect the Wizard DVI to your CPUs, order			
Wizard DVI CPU Cables Single-Head Switch 3-ft. (0.9-m)	, ,		
Single-Head Switch 3-ft. (0.9-m) EHN450-0003	, , , , , , , , , , , , , , , , , , , ,		
3-ft. (0.9-m)			
6-ft. (1.8-m)		FHN450-0003	
10-ft. (3-m)			
Dual-Head Switch 3-ft. (0.9-m) EHN460-0003 6-ft. (1.8-m) EHN460-0010 10-ft. (3-m) EHN460-0010 10-dead Switch EHN470-0003 6-ft. (1.8-m) EHN470-0003 6-ft. (1.8-m) EHN470-0003 6-ft. (1.8-m) EHN470-0006 10-ft. (3-m) EHN470-0010 10-ft. (3-m) EHN470-0010 10-ft. (3-m) EHN470-0010 10-ft. (3-m) EVNDVIO3-0010 10-ft. (3-m) EVNDVIO3-0003-MF 6-ft. (1.8-m) EVMPS03-0003-MF 6-ft. (1.8-m) EVMPS03-0006-MF 10-ft. (3-m) EVMPS03-0010-MF 2-ft. (0.9-m) EVMPS03-0010-MF 2-ft. (0.9-m) EVMPS03-0010-MF 2-ft. (1.8-m) EVMPS03-0010-MF 2-ft. (1.8-m) EVMPS03-0010-MF 2-ft. (1.8-m) EVMPS03-0010-MF 2-ft. (1.8-m) EVMPS03-0010-MF 3-ft.			
3-ft. (0.9-m)	·		
6-ft. (1.8-m)		FHN460-0003	
10-ft. (3-m)			
Quad-Head Switch 3-ft. (0.9-m) EHN470-0003 6-ft. (1.8-m) EHN470-0006 10-ft. (3-m) EHN470-0010 To extend the distance between the Wizard DVI and your monitor, order EVNDVI03-0006 10-ft. (3-m) EVNDVI03-0006 10-ft. (3-m) EVNDVI03-0010 To extend the distance between the Wizard DVI and your keyboard or mouse, order 6-Pin Mini-DIN Cable 2-ft. (0.6-m) EVMPS03-0002-MF 3-ft. (0.9-m) EVMPS03-0003-MF 6-ft. (1.8-m) EVMPS03-0006-MF 10-ft. (3-m) EVMPS03-0000-MF 4-ft. (1.8-m) EVMPS03-0010-MF You may also need Adapter for connecting the keyboard port of a PC/AT type CPU (use with CPU Cable, comes with Kits) FA212 Adapter for connecting the serial mouse port of a PC/AT type CPU (use with CPU Cable, comes with Kits) FA214 Adapter for connecting the Servs witch Wizard, Wizard PRO, and Wizard DVI With 10-ft. (3-m) Cable KV6REM with 25-ft. (7.6-m) Cable KV6REM-25 KV6REM-25 with 50-ft. (15.2-m) Cable KV6REM-75	· · · ·		
3-ft. (0.9-m)	·		
6-ft. (1.8-m) EHN470-0006 10-ft. (3-m) EHN470-0010 To extend the distance between the Wizard DVI and your monitor, order DVI-D Male—DVI-D Female Extension Cable 6-ft. (1.8-m) EVNDVI03-0006 10-ft. (3-m) EVNDVI03-0010 To extend the distance between the Wizard DVI and your keyboard or mouse, order 6-Pin Mini-DIN Cable 2-ft. (0.6-m) EVMPS03-0002-MF 3-ft. (0.9-m) EVMPS03-0003-MF 6-ft. (1.8-m) EVMPS03-0006-MF 10-ft. (3-m) EVMPS03-0006-MF 10-ft. (3-m) EVMPS03-0010-MF You may also need Adapter for connecting the keyboard port of a PC/AT type CPU (use with CPU Cable, comes with Kits) FA212 Adapter for connecting the serial mouse port of a PC/AT type CPU (use with CPU Cable, comes with Kits) FA214 Adapter for connecting a PC/AT keyboard FA211 Remote-Control Module for ServSwitch Wizard, Wizard PRO, and Wizard DVI with 10-ft. (3-m) Cable KV6REM with 25-ft. (7.6-m) Cable KV6REM-25 with 50-ft. (15.2-m) Cable KV6REM-50 with 75-ft. (22.9-m) Cable KV6REM-75		EHN470-0003	
To extend the distance between the Wizard DVI and your monitor, order DVI-D Male—DVI-D Female Extension Cable 6-ft. (1.8-m)	6-ft. (1.8-m)	EHN470-0006	
DVI-D Male—DVI-D Female Extension Cable 6-ft. (1.8-m)	10-ft. (3-m)	EHN470-0010	
DVI-D Male—DVI-D Female Extension Cable 6-ft. (1.8-m)	To extend the distance between the Wizard DVI and your monitor, order		
6-ft. (1.8-m)			
To extend the distance between the Wizard DVI and your keyboard or mouse, order 6-Pin Mini-DIN Cable 2-ft. (0.6-m)		EVNDVI03-0006	
6-Pin Mini-DIN Cable 2-ft. (0.6-m)	10-ft. (3-m)	EVNDVI03-0010	
6-Pin Mini-DIN Cable 2-ft. (0.6-m)	To extend the distance between the Wizard DVI and your keyboard or mouse, order		
3-ft. (0.9-m)			
6-ft. (1.8-m)	2-ft. (0.6-m)	EVMPS03-0002-MF	
10-ft. (3-m)	3-ft. (0.9-m)	EVMPS03-0003-MF	
You may also need Adapter for connecting the keyboard port of a PC/AT type CPU (use with CPU Cable, comes with Kits)FA212 Adapter for connecting the serial mouse port of a PC/AT type CPU (use with CPU Cable, comes with Kits)FA314 Adapter for connecting a PC/AT keyboard	6-ft. (1.8-m)	EVMPS03-0006-MF	
Adapter for connecting the keyboard port of a PC/AT type CPU (use with CPU Cable, comes with Kits)FA212 Adapter for connecting the serial mouse port of a PC/AT type CPU (use with CPU Cable, comes with Kits)FA314 Adapter for connecting a PC/AT keyboard	10-ft. (3-m)	EVMPS03-0010-MF	
Adapter for connecting the keyboard port of a PC/AT type CPU (use with CPU Cable, comes with Kits)FA212 Adapter for connecting the serial mouse port of a PC/AT type CPU (use with CPU Cable, comes with Kits)FA314 Adapter for connecting a PC/AT keyboard	You may also need		
Adapter for connecting the serial mouse port of a PC/AT type CPU (use with CPU Cable, comes with Kits)FA314 Adapter for connecting a PC/AT keyboard		its)FA212	
Adapter for connecting a PC/AT keyboard			
with 10-ft. (3-m) Cable			
with 10-ft. (3-m) Cable			
with 25-ft. (7.6-m) Cable		KV6REM	
with 50-ft. (15.2-m) CableKV6REM-50 with 75-ft. (22.9-m) CableKV6REM-75			
with 75-ft. (22.9-m) CableKV6REM-75			
· · · ·			
	ServSwitch Wizard PRO Rackmount Kit	RMK19WP	