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ServSwitch Console Plus



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Bring serial access to your KVM switching applications.

FEATURES

- Access and switch between CPUs or serial devices from a single KVM station.
- Connects up to 1000 servers or CPUs to a console user station.
- Switch via keyboard commands, menu list, or commands through serial port.
- Video resolution up to 1600 x 1280.
- Supports async serial devices.
- Control access by grouping users by profiles.
- Modular design for expandability. Use Expansion Card to extend to other units.

Three ServSwitch Console Plus Chassis in a Bus Topology

This bus configuration is typically used when the user is connected to the KVM ports on chassis #1. In this configuration, the video path goes from the last unit in the bus to the first unit (OUT to IN ports). This way, if you're attached to the first unit, you can access all computers on all units.

NOTE: All units in the bus must have an Expansion Card installed.

OVERVIEW

Do you want to access multiple serial devices (such as PCs and servers) via a single keyboard, monitor, and mouse (KVM)? The ServSwitch Console Plus lets you switch among servers, CPUs, routers, hubs, UNIX devices, and other serial devices. It's unique because it allows you to not only switch between CPUs and servers, but also serial devices.

The advanced distributed design of a single ServSwitch Console Plus enables access to multiple (4, 8, or 16, depending on the model you order) asynchronous serial devices from the same console interface. Or, if you daisychain ServSwitch units, you can connect up to 1000 servers, CPUs, or other serial devices.

The switch effectively acts as a dumb terminal with an eight-page scroll buffer to enable easy monitoring of your serial equipment. You don't need to jump between user stations to access both servers and serial devices.

Multiplatform capability.

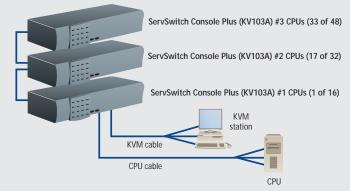
The ServSwitch Console Plus works with PC, Mac[®], Sun[®], UNIX[®], Linux[®], and USB systems. Mix platforms in a single installation and switch between them all.

From a central KVM station, connect either 4, 8, or 16 servers or CPUs (depending on the model you order). Once connected, use the attached computers and all the functions and applications with it from a single KVM station that serves as a central access point for your system.

The interface is so powerful that it's actually a color VT220[∞] terminal. When you connect to a serial device, you see a 24 x 80 full-screen display with two status lines. Linux serial ports also display directory lists in color.

By incorporating KVM switching to your network, you save on hardware costs and space as well as make your application more efficient.

And, because it's modular in design, you can add an expansion card, link it to additional switches, and increase the number of connections to computers.



Daisychain for more CPU access.

For even more port density, connect multiple units with our specially designed cables to create a seamless KVM matrix switch. In fact, the Console Plus can be expanded to as many as 1000 CPUs or servers!

To expand the Console Plus in a bus configuration, you'll need to install an Expansion Card in each chassis. The card's connectors provide the means of sending system, keyboard, video, and mouse data from one unit's Expansion Card output to another unit's Expansion Card input. This enables the first KVM station to switch to a computer that's connected on another chassis.

Cabling is easy, too!

The ServSwitch Console Plus offers cable distances of up to 100 feet (30.5 m) without any additional extension products. You'll need a CPU cable for each computer connected to the Console Plus; a KVM (user) cable for the KVM station; and if you want to daisychain multiple units in a bus topology, expansion cables.

With the Console Plus, you get an RJ-12 serial cable for flash upgrades and an RJ-to-DB9 adapter. You'll have to order the CPU, KVM, and expansion cables separately. The DTE and DCE serial cables you'll need are listed on **page 4**.

Serial port flexibility.

Connect the rear RS-232 port on the ServSwitch Console Plus to the COM port on your computer using the included serial cable. Through this connection, you can switch a KVM station to a CPU port, configure an expansion switch, upgrade the system firmware, or restore the Console Plus to its factory settings.

To access the serial port's parameters, all you need is a communications program such as Windows® HyperTerminal. This interface enables you to start a serial communication

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session and change the serial port's baud rate (between either 9600 bps or 57.6 kbps).

Any CPU port on the ServSwitch Console Plus can be configured as a serial port, too. This way, you can connect a KVM station to a serial device (such as the serial port on a UNIX or Sun computer) or any device with a serial port. To do this, simply connect the device to the DB25 CPU port on the Console Plus with a serial cable. Switching to that port gives you access to the attached serial device. And baud speeds can be controlled on the serial-configured CPU port just as they can on the Console Plus' dedicated RS-232 serial port.

Easy to switch and configure.

All switching and CPU/server access can be done using the Console Plus' advanced On Screen Display (OSD). This graphical representation, which can be accessed with a simple keystroke and overlays your existing monitor image, enables you to select connected computers without having to push a button on the Console Plus.

Just make your choices by selecting from the OSD's pop-up menus. User-friendly help lines are shown for each item. Connect to computers by name, and view the connection status or observe the system status in real-time with the status screen displays. The status screen also shows all connections between multiple Console Plus units.

The OSD also links you to a host of configuration options. Establish CPU names, assign addresses, set security features, and customize the appearance of the interface with style and ease. You can even change the language of the interface's text (for English, French, German, Italian, Portuguese, or Spanish).

Keep access to authorized users.

For security on the Console Plus, either auto assign settings to a KVM station or require users to log in with a user ID and password. Depending on the amount of security you require, you can configure different levels of access for different users. For instance, set the Console Plus to allow only authorized personnel to access computers or servers that contain sensitive information or restricted applications.

You can also assign certain computers to a unique group and define them by profiles. For each profile, you can assign specific modes of access. By default, all users who connect to the Console Plus operate in Share Mode, in which keyboard and mouse control of a computer is granted on a first-come, first-served basis.

But there are also View, Control, and Private Modes, too. In View Mode, users can switch computers but have no keyboard or mouse control. In Control Mode, specified users can take exclusive control of keyboard and mouse functions while other users are restricted to view-only capabilities. Private Mode is the the same as Control Mode except other users can't view the video or access the computer. The ServSwitch Console Plus fully emulates keyboards and mice and can be used with a $PS/2^{\circ}$ keyboard and mouse or a Sun keyboard and mouse. For your KVM station, we recommend using a multisync monitor that supports resolutions up to 1280 x 1024 @ 75 Hz or better.

The Console Plus's scan function sets the time the monitor video is displayed before switching to the video of the next computer in the sequence.

The Console Plus also supports hotkey switching, in which a simple command sequence on the keyboard gives you quick CPU access.

Upgrade the firmware via flash memory so it maintains compatibility with the latest devices and features.

TECH SPECS

Video Sync — HV sync, Composite, sync-on-green Approvals - UL®, cUL, TUV, CE, GE Chassis Construction - Electro galvanized steel with black powder coating Controls — Lighted On/Off switch Video Bandwidth — KV101A-KV102A: 250 MHz; KV103A: 100 MHz Connectors - All: User port: (1) DB25 F; Expansion port (optional): (1) DB15 M, (1) DB15 F; RS-232 serial port: (1) RJ-12 (6-wire); Power: (1) IEC 320; KV101A: CPU ports: (4) DB25 female; KV102A: CPU ports: (8) DB25 female; KV103A: CPU ports: (16) DB25 female Indicators — All: (1) Chassis Power; KV101A: (4) CPU Select, (4) CPU Power; KV102A: (8) CPU Select, (8) CPU Power: KV103A: (16) CPU Select, (16) CPU Power Temperature Tolerance — 32 to 113°F (0 to 45°C) Humidity Tolerance - 5 to 80%, noncondensing Power - 90-240 VAC, 47-60 Hz, autoswitching Size — KV101A-KV102A: 1.75"H (1U) x 16.7"W x 4.9"D (4.4 x 42.4 x 12.4 cm); KV103A: 3.5"H (2U) x 16.7"W x 4.9"D (8.9 x 42.4 x 12.4 cm) Weight - KV101A-KV102A: 4 lb. (1.8 kg); KV103A: 8 lb. (3.6 kg)

WHAT'S INCLUDED

- ServSwitch Console Plus
- Users' manual
- RJ-12 flash cable
 RJ-to-DB9 adapter
- Power cord

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KV102A: front and rear views



Item	Code	Item
ServSwitch [™] Console Plus		AT
4-Port	KV101A	
8-Port	KV102A	
16-Port	KV103A	US
To daisychain your system, order		
Expansion Module	SW740C-R3-B	
To connect multiple chassis, order		-
Expansion Cable	1/1/4 40040	
10-ft. (3-m)	KV140010	
35-ft. (10.7-m)	KV140035	10
100-ft. (30.5-m) For your serial connections, order	KV140100	Sui
ServSwitch Console Plus Serial Cables, DTE		Sui
DB25 Male/DB9 Female		
5-ft. (1.5-m)	EHN290-0005	
10-ft. (3-m)	EHN290-0010	
20-ft. (6.1-m)	EHN290-0020	
35-ft. (10.7-m)	EHN290-0035	
50-ft. (15.2-m)	EHN290-0050	
DB25 Male/DB25 Female		
5-ft. (1.5-m)	EHN291-0005	,
10-ft. (3-m)	EHN291-0010	
20-ft. (6.1-m)	EHN291-0020	
35-ft. (10.7-m)	EHN291-0035	
50-ft. (15.2-m)	EHN291-0050	Ma
ServSwitch Console Plus Serial Cables, DCE		1
DB25 Male/DB9 Male		
5-ft. (1.5-m)	EHN292-0005	
10-ft. (3-m)	EHN292-0010	(
20-ft. (6.1-m)	EHN292-0020	
35-ft. (10.7-m)	EHN292-0035	
50-ft. (15.2-m)	EHN292-0050	NOTE: C
DB25 Male/DB25 Male		For KVI
5-ft. (1.5-m)	EHN293-0005	ServS
10-ft. (3-m)	EHN293-0010	(User
20-ft. (6.1-m) 35-ft. (10.7-m)	EHN293-0020 EHN293-0035	PS/
50-ft. (15.2-m)	EHN293-0055	
For CPU or server connections, you'll need	EHN273-0030	Į
CPU/Server to ServSwitch Cables (CPU Cables)) for PC	10
PS/2, Standard	, 10110	20
5-ft. (1.5-m)	EHN151-0005	PS/
10-ft. (3-m)	EHN151-0010	
20-ft. (6.1-m)	EHN151-0020	:
CPU/Server to ServSwitch Cables (CPU Cables)) for PC	1(
PS/2, Coax		20 35
2-ft. (0.6-m)	EHN382-0002	50
5-ft. (1.5-m)	EHN382-0005	7!
10-ft. (3-m)	EHN382-0010	100
20-ft. (6.1-m)	EHN382-0020	AT,
35-ft. (10.7-m)	EHN382-0035	, (1)
50-ft. (15.2-m)	EHN382-0050	
75-ft. (22.9-m)	EHN282-0075	AT,
100-ft. (30.5-m)	EHN282-0100	
20-ft. (6.1-m)	EHNUSB-0020	

Item	Code
AT [®] , Standard	
5-ft. (1.5-m)	EHN048-0005
10-ft. (3-m)	EHN048-0010
USB, Coax	
5-ft. (1.5-m)	EHN485-0005
10-ft. (3-m) 20-ft. (6.1-m)	EHN485-0010 EHN485-0020
35-ft. (10.7-m)	EHN485-0035
50-ft. (15.2-m)	EHN485-0050
75-ft. (22.9-m)	EHN485-0075
100-ft. (30.5-m)	EHN485-0100
Sun, Coax	
13W3	
5-ft. (1.5-m)	EHN206-0005
10-ft. (3-m)	EHN206-0010 EHN206-0020
20-ft. (6.1-m) 35-ft. (10.7-m)	EHN206-0020
50-ft. (15.2-m)	EHN206-0050
75-ft. (22.9-m)	EHN206-0075
100-ft. (30.5-m)	EHN206-0100
VGA	
5-ft. (1.5-m)	EHN515-0005
10-ft. (3-m)	EHN515-0010
20-ft. (6.1-m)	EHN515-0020
Mac Standard (DB15)	
5-ft. (1.5-m)	EHN215-0005
10-ft. (3-m)	EHN215-0010
Coax	
10-ft. (3-m)	EHN208-0010
20-ft. (6.1-m)	EHN208-0020
NOTE: Other lengths are available.	
For KVM connections, order	
ServSwitch to Keyboard/Monitor/Mouse Cable	es
(User Cables) for PC	
PS/2, Standard	FUN1E4 0001
1-ft. (0.3-m) 5-ft. (1.5-m)	EHN154-0001 EHN154-0005
10-ft. (3-m)	EHN154-0010
20-ft. (6.1-m)	EHN154-0020
PS/2, Coax	
2-ft. (0.6-m)	EHN383-0002
5-ft. (1.5-m)	EHN383-0005
10-ft. (3-m)	EHN383-0010
20-ft. (6.1-m)	EHN283-0020 EHN383-0035
35-ft. (10.7-m) 50-ft. (15.2-m)	EHN383-0035
75-ft. (22.9-m)	EHN283-0075
100-ft. (30.5-m)	EHN383-0100
AT, Standard	
1-ft. (0.3-m)	EHN052-0001
5-ft. (1.5-m)	EHN052-0005
AT, Coax	FUN:070 0040
10-ft. (3-m) 20-ft. (6.1-m)	EHN270-0010 EHN270-0020
20-11. (0.1-11)	LI IIV2 / 0-0020

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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.

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For KVM connections, order... ServSwitch to Keyboard/Monitor/Mouse Cables (User Cables) for PC Sun, Coax, 13W3 1-ft. (0.3-m) EHN201-0001 5-ft. (1.5-m) EHN201-0005 VGA 5-ft. (1.5-m) EHN225-0005 10-ft. (3-m) EHN225-0010 Mac, Standard 1-ft. (0.3-m) EHN210-0001 5-ft. (1.5-m) EHN210-0005 Mac, Coax 10-ft. (3-m) EHN203-0010 EHN203-0020 20-ft. (6.1-m) USB to PS/2 Converter **KVUSB** USB to PS/2 Flashable User Cable 1-ft. (0.3-m) EHNUSB-0001 5-ft. (1.5-m) EHNUSB-0005 10-ft. (3-m) EHNUSB-0010 20-ft. (6.1-m) EHNUSB-0020 35-ft. (10.7-m) EHNUSB-0035 50-ft. (15.2-m) EHNUSB-0050 75-ft. (22.9-m) EHNUSB-0075 100-ft. (30.5-m) EHNUSB-0100





Code