KVM/CONSOLE SOLUTIONS









IP Console Servers, **Consoles & KVM Switches**

Control multiple servers and other devices from a single console (keyboard, mouse and monitor).

- Consolidate device management
- Improve security and system availability
- Access devices from any location











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TRIPP·LITE 3 / 4 / 16 / 48 PORT IP CONSOLE SERVERS

IP CONSOLE SERVERS





B092-016

CONSOLIDATE DEVICE MANAGEMENT

Tripp Lite IP Console Servers provide secure in-band and out-of-band remote access to serial- and network-connected servers, routers, network switches, KVM switches, firewalls, PBX systems, UPS systems, RPC units, PDUs and other devices. IP Console Servers allow you to manage diverse server and device platforms using a local console, network connection or dial-up connection. Cisco-compatible RJ45 serial ports provide direct connection to a wide variety of serial devices. Secure tunneling connections allow up to 48 concurrent users to access more than 1,000 devices through a single IP address from any location.

INCREASE SYSTEM AVAILABILITY

Out-of-band access with automatic failover provides a fail-safe alternative channel for managing and troubleshooting critical systems if your local network or Internet connection goes down, eliminating a crucial point of failure. Real-time alerts, integrated power management, environmental monitoring options, service processor access and convenient management tools help you correct problems before they impair productivity. B096-series IP Console Servers include redundant power supplies and Ethernet ports for additional fault tolerance.

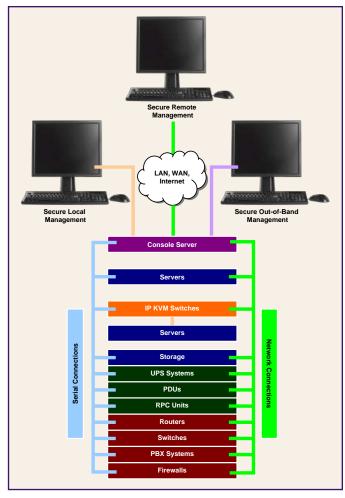
SECURE EVERY CONNECTION

Access all your devices securely with SSH encrypted tunnels, remote authentication (RADIUS, TACACS+, LDAP, Active Directory), multi-level access rights management, detailed logging and compliant audit trails. Secure tunneling software and unlimited licenses are included. B096-series and B095-series IP Console Servers include FIPS 140-2 cryptography and IPSec VPN support. B096-series IP Console Servers also include a built-in DHCP server, firewall and router to host a separate management LAN for your most critical traffic.

- 3, 4, 16 or 48 RJ45 Serial Ports in 1U
- In-Band and Out-of-Band Access to Serial- and Network-Connected Devices
- Secure Tunneling to All Devices
- Integrated Management Tools
- 1,000+ Devices per Console Server
- Embedded Linux® with Shell Access
- UPS/PDU Monitoring and Control
- Flash RAM for Logs and Configurations
- Standard Cisco® Pinouts







IP Console Servers provide secure in-band and out-of-band access to serial- and network-connected devices, including IP KVM switches.

INTEGRATE MANAGEMENT TOOLS

IP Console Servers have a programmable Linux core closely integrated with powerful management tools:

- Nagios® remote monitoring (NSCA, NRPE)
- Command line access (SSH, Telnet)
- Browser access (HTTP, HTTPS, SSL)
- Remote GUI access (VNC, RDP, ICA, X11)
- BMC/service processor access (IPMI, iLO, ALOM, DRAC, RSA, AMT)
- Serial-over-LAN (BIOS, EMS and ACS access)
- Power management (NUT, PowerMan)
- Custom alerts (E-mail, SMS, SNMP, Nagios)
- Easily add your preferred TCP or UDP tools

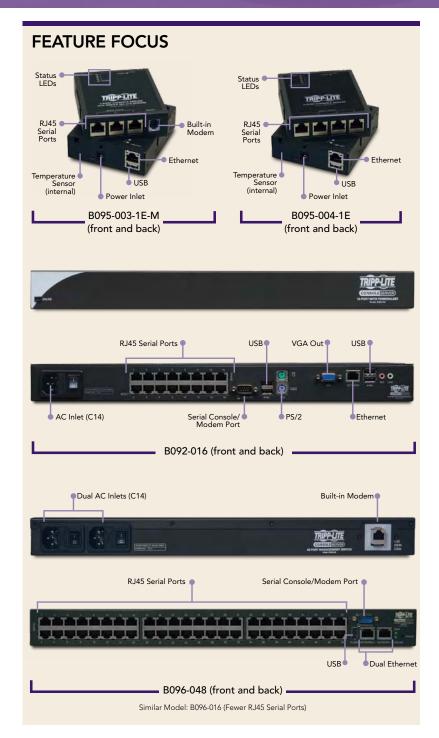
Model B092-016 also includes a built-in thin client, KVM console ports and PowerAlert NMS software that can auto-discover and manage hundreds of Tripp Lite UPS systems, PDUs and cooling systems.

REDUCE COSTS

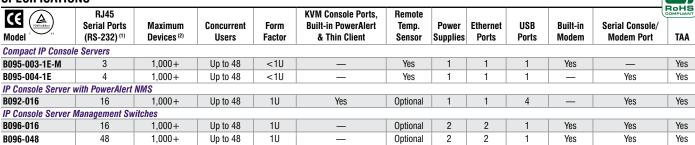
Manage diverse platforms and widely dispersed IT assets with fewer personnel and less equipment. Solve complex problems before they cause downtime that hurts your bottom line. Reduce costly service calls by configuring, troubleshooting and rebooting devices remotely. Extend the management capabilities of your existing KVM switches without replacing and reinstalling. Implement Nagios monitoring at remote sites without installing distributed Nagios servers. Embedded tools and client software ship fully enabled and do not require additional licensing fees.

EXPAND DYNAMICALLY

IP Console Servers can access 1,000+ devices, adding new connections as needed. Multiple units can share a single IP address to consolidate additional serial connections at remote sites. You can add new IP Console Servers at any time, allowing you to start small and manage growth without disruption.



SPECIFICATIONS



Certifications vary by model. All models include mounting hardware for installation in standard 19-inch racks. All models are compatible with 100-240 VAC, 50/60 Hz input and include a detachable power cord or AC adapter with a standard North American plug. Connect a user-supplied power cord or plug adapter for compatibility in other regions. (1) Sun®/Solaris® break-safe. B090-series adapters required to connect to serial devices that do not have Cisco-compatible RJ45 serial ports. See page 20 for more information. (2) Includes both serial- and network-connected devices. Connecting more serial devices than the number of built-in serial ports requires additional units.

CONSOLE KVM SWITCHES



- Keyboard, Touchpad and Color LCD Monitor in 1U
- 8 or 16 KVM Ports
- With or Without Built-in IP Remote Access
- Multi-Platform Compatibility
- Plug-and-Play Setup
- Control Up to 512 Servers

STORE YOUR WORKSTATION IN 1U

Console KVM Switches include a full-size keyboard, touchpad, 17-or 19-inch color LCD and 8- or 16-port KVM switch. The entire package folds like a laptop and slides into a 1U rack drawer, providing compact storage and easy access without compromising your control over connected servers. A heavy-duty enclosure, high-quality LCD, premium connectors and uncomplicated controls ensure trouble-free operation in demanding high-availability environments. The dual-rail model allows the LCD to remain open while the keyboard is stored out of the way.

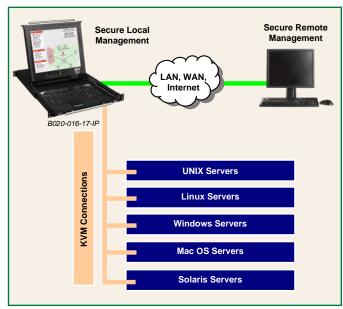




Console KVM Switches fold like a laptop and slide into a 1U rack drawer.

ACCESS SERVERS ANYWHERE

Console KVM Switches with built-in IP remote access (also known as KVM over IP) allow you to access your connected servers over the local network or Internet. Whether you're in the next room or halfway around the world, you'll be able to monitor and control servers through a standard Web browser or multi-platform client software. Models without built-in IP remote access allow you to add an optional IP Remote Access Unit. In addition, you can extend local console connections up to 330 ft. by adding an optional Cat5 Console Extender. (See page 19 for more information.)



Console KVM Switches with IP remote access allow you to access connected servers over the local network or the Internet.

MANAGE CRITICAL SYSTEMS

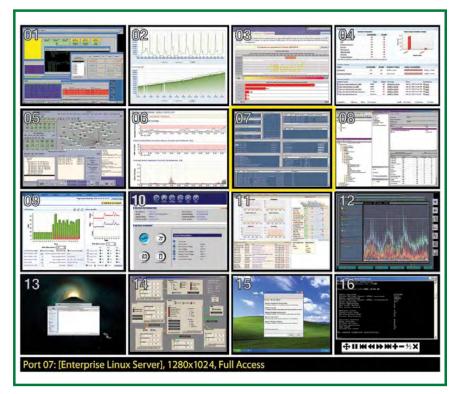
Console KVM Switches are ideal for managing your critical systems. No serverresident software is required, so server performance and reliability are compromised. BIOS-level access allows you to solve complex problems efficiently and restore service before downtime hurts productivity. Automatic port configuration and an advanced on-screen display (OSD) with convenient features like custom port labeling, auto-scanning and panel array mode ease multi-server management in data centers, server rooms and other high-density environments. Upgradable firmware finetunes compatibility with emerging standards. B070-series models use efficient Cat5 cabling that reduces clutter, improves rack airflow, leverages existing resources and allows local server connections to extend up to 100 ft.

SUPPORT MULTIPLE PLATFORMS

Console KVM Switches support PS/2 and USB connections, with high-resolution VGA video up to 1280 x 1024. Because compatibility is based on common hardware standards rather than system software dependencies, almost any platform can be accommodated. Connect multiple versions of multiple platforms in any combination, including UNIX®, Linux, Windows®, Mac OS®, Solaris and more.

SECURE EVERY CONNECTION

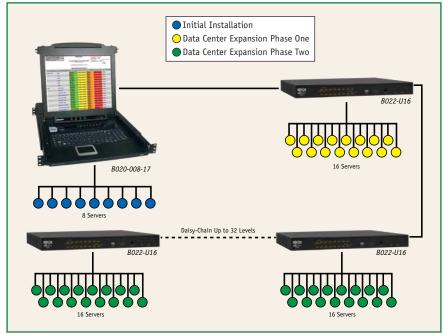
Whether you access Console KVM Switches locally or remotely, up to three levels of password security accommodate user and administrator accounts. Remote access is further protected with technologies such as advanced encryption, access rights management, remote authentication and detailed activity logging.



An advanced on-screen display (OSD) facilitates multi-server management with a graphical user interface and convenient features like custom port labeling, auto-scan and panel array mode (shown).

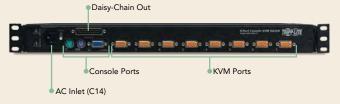
EXPAND DYNAMICALLY

Access up to 512 servers by connecting one or more cost-effective expansion units. You can add capacity whenever you need it, allowing you to start with a smaller initial investment and accommodate your growing data center without disrupting existing equipment.



Connect cost-effective expansion units to increase server capacity at any time.





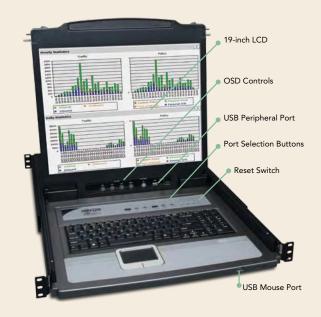
B020-008-17 (front and back)

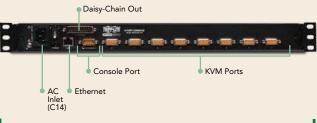
Similar Model: B020-016-17 (More KVM Ports)





■ B020-016-17-IP (front and back)





B020-U08-19-IP (front and back)

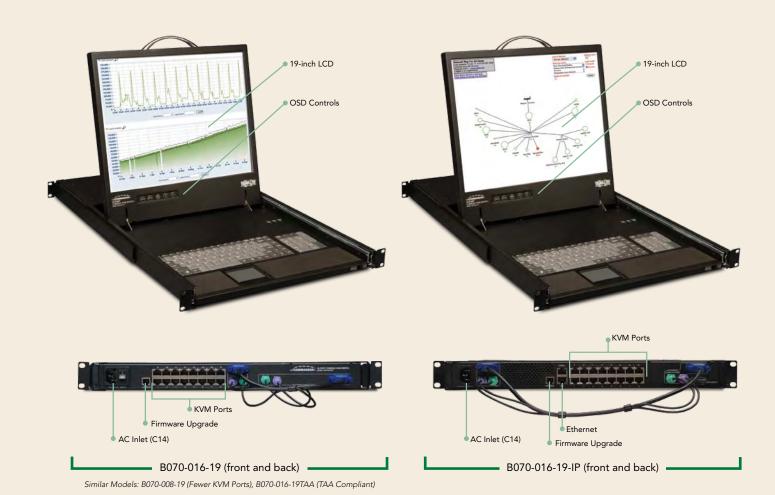
Similar Models: B020-U08-19-K (No Built-in IP Access), B020-U16-19-K (More KVM Ports, No Built-in IP Access), B020-U16-19KTAA (More KVM Ports, No Built-in IP Access, TAA Compliant)





B040-008-19 (front and back)

Similar Model: B040-016-19 (More KVM Ports)



SPECIFICATIONS

												ROHS
((((((((((KVM	Max		IP Remote	Security		Kits, Adapters face Modules (5)	KVM Port Selection	Hot Keys, Auto Scan	Panel Array	Dual	COMPLIANT
Model	Ports	Servers	LCD	Access	Levels	PS/2	USB	Buttons	& OSD	Mode	Rail	TAA
NetDirector™ Conso												
B020-008-17	8	504 (1)	17 in.	Add B051-000	2	P774-Series (Includes 1)	P776-Series (Includes 1)	Yes	Yes	_	_	-
B020-U08-19-IP	8	504 (1)	19 in.	Built-in	3	P778-Series (Inc	cludes 2 x 6 ft. Kits)	Yes	Yes (6)	Yes	_	_
B020-U08-19-K	8	504 (1)	19 in.	Add B051-000	2	P778-Series (Inc	cludes 8 x 6 ft. Kits)	Yes	Yes (6)	Yes	_	_
B020-U08-19KTAA	8	504 (1)	19 in.	Add B051-000	2	P778-Series (Inc	cludes 8 x 6 ft. Kits)	Yes	Yes (6)	Yes	_	Yes
B020-016-17	16	512 (1)	17 in.	Add B051-000	2	P774-Series (Includes 1)	P776-Series (Includes 1)	Yes	Yes	_	_	_
B020-016-17-IP	16	256 (2)	17 in.	Built-in	3	P774-Series (Includes 1)	P776-Series (Includes 1)	Yes	Yes	Yes	Yes	Yes
B020-U16-19-K	16	512 (1)	19 in.	Add B051-000	2	P778-Series (Inc	cludes 8 x 6 ft. Kits)	Yes	Yes (6)	Yes	_	_
NetController™ Cons	ole KVM	Switches										
B040-008-19	8	248 (3)	19 in.	Add B051-000	1	P780-Series	P780-Series	Yes	Yes	_	_	-
B040-016-19	16	256 ⁽³⁾	19 in.	Add B051-000	1	P780-Series	P780-Series	Yes	Yes	_	_	
NetCommander™ Ca	t5 Conso	le KVM Swi	tches									
B070-008-19	8	128 (4)	19 in.	Add B051-000	3	B078-101-PS2	B078-101-USB	_	Yes	_	_	_
B070-016-19	16	256 (4)	19 in.	Add B051-000	3	B078-101-PS2	B078-101-USB	_	Yes	_	_	
B070-016-19TAA	16	256 (4)	19 in.	Add B051-000	3	B078-101-PS2	B078-101-USB	_	Yes	_	_	Yes
B070-016-19-IP	16	256 (4)	19 in.	Built-in	3	B078-101-PS2	B078-101-USB	_	Yes	_		

Certifications vary by model. All models include mounting hardware for 1U installation in standard 19-inch racks. (Add a B019-000 adapter for 2-post racks.) All models are compatible with 100-240 VAC, 50/60 Hz input (C14 inlet) and include a detachable power cord with a standard North American plug (5-15P). Connect a user-supplied power cord for compatibility in other regions. (1) Requires daisy-chaining additional B022-U16 or B022-016 units with P772-series cables. (2) Requires cascading additional B022-U16 units. (3) Requires daisy-chaining additional B042-series units. Each B042-series unit includes an 8 in. daisy-chain cable. Use P781-series cables if additional length is required. (4) Requires cascading additional B072-008-1 or B072-016-1 units. (5) KVM switches require one KVM cable kit, adapter or server interface module per server. See page 20 for more information. (6) Multilingual OSD.

RACK CONSOLES



- Keyboard, Touchpad and Color LCD Monitor in 1U
- Connect to KVM Switch, Server or IP Console Server (B092-016)
- Plug-and-Play Setup
- Multi-Platform Compatibility
- Cable Kits Included

STORE YOUR WORKSTATION IN 1U

Rack Consoles include a full-size keyboard, touchpad and 17- or 19-inch color LCD monitor. The entire package folds like a laptop and slides into a 1U rack drawer, providing compact storage and easy access. A heavy-duty enclosure, high-quality LCD, premium connectors and uncomplicated controls ensure trouble-free operation in demanding high-availability environments.





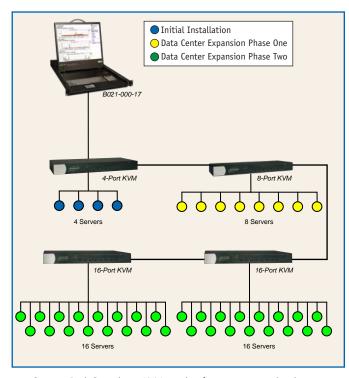
Rack Consoles fold like a laptop and slide into a 1U rack drawer.

ADD CONVENIENT RACK-SIDE ACCESS

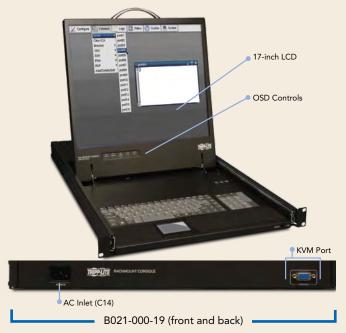
Rack Consoles connect directly to your KVM switch, server or IP Console Server (B092-016) to add convenient rack-side access to your equipment. In addition, you can extend console connections up to 330 ft. by adding an optional Cat5 Console Extender. (See page 19 for more information.)

CONNECT TO KVM SWITCHES OR SERVERS

Rack Consoles support PS/2 and USB connections, with high-resolution VGA video up to 1280×1024 . Because compatibility is based on common hardware standards rather than system software dependencies, almost any server or KVM switch from any vendor can be accommodated. See the specifications chart on the next page for compatibility information.



Connect Rack Consoles to KVM switches for convenient rack-side server control. Scale to control additional servers by adding expansion units whenever required.



AC Inlet (C14)

B021-000-19-SH (front and back)

Similar Models: B021-000-17 (Smaller LCD), B021-000-17TAA (Smaller LCD, TAA Compliant)



SPECIFICATIONS

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CE A TÜVRheleland			Maximum	KVM Cable K	its or Adapters	ROHS						
Model	KVM Ports	LCD	Resolution	PS/2	USB	Other Features						
NetDirector Rack Cons	soles											
B021-000-17	1	17 in.	1280 x 1024	Includes 6 ft. Cable Kit	Includes Adapter	_						
B021-000-17TAA	1	17 in.	1280 x 1024	Includes 6 ft. Cable Kit	Includes Adapter	TAA Compliant						
B021-02R-17	1	17 in.	1280 x 1024	Includes 6	ft. Cable Kit	Dual Rail, Short Depth (19 to 30 in.)						
B021-000-19	1	19 in.	1280 x 1024	Includes 6 ft. Cable Kit	Includes Adapter	_						
B021-000-19-SH	1	19 in.	1280 x 1024	Includes 6	Short Depth (22 to 34 in.)							
						<u> </u>						

Compatibility

Connect NetDirector Rack Consoles to:

- Any Tripp Lite KVM Switch, B092-016 IP Console Server or B013-330 Console Extender.
- Third-party equipment with VGA or DVI (analog) video output(1) and PS/2 or USB keyboard/mouse connectors.

Certifications vary by model. All models include mounting hardware for 1U installation in standard 19-inch racks. (Add a B019-000 adapter for installation in 2-post racks.) All models are compatible with 100-240 VAC, 50/60 Hz input (C14 inlet) and include a detachable power cord with a standard North American plug (5-15P). Connect a user-supplied power cord for compatibility in other regions. (1) Add a P120-000 adapter to support DVI analog video.



Online KVM Selector

Go to www.tripplite.com/selectors to access Tripp Lite's dynamic KVM selector. Refine KVM choices by form factor, ports and features, then compare KVM switches to find the perfect model for your application. Selectors for UPS systems, replacement batteries, PDUs, surge suppressors, inverters and cables are also available.

IP REMOTE ACCESS KVM SWITCHES

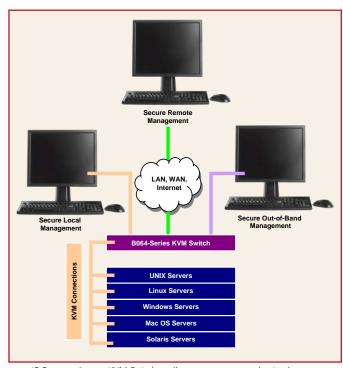


ACCESS SERVERS ANYWHERE

IP Remote Access KVM Switches include built-in IP remote access (also known as KVM over IP), allowing you to monitor and control connected equipment over the local network or Internet. Whether you're in the next room or halfway around the world, you'll be able to access your servers through a standard Web browser or multi-platform client software. B064-series models also support out-of-band dial-up connections to provide fail-safe access to your servers if the network or Internet connection goes down

MANAGE CRITICAL SYSTEMS

IP Remote Access KVM Switches are ideal for managing your critical systems. No server-resident software is required, so server performance and reliability are never compromised. BIOS-level remote access allows you to solve complex problems efficiently and restore service before downtime hurts productivity. Automatic port configuration and an on-screen display (OSD) with convenient features like custom port labeling, auto-scanning and panel array mode ease management of large installations in data centers, server rooms and other high-density environments. Upgradable firmware fine-tunes compatibility with emerging standards. Cat5 models use efficient Cat5/5e/6 cabling that reduces clutter, improves airflow in rack enclosures, leverages existing resources and allows local server connections to extend up to 165 ft. B064-series models include dual power supplies and Ethernet ports for additional fault tolerance.



IP Remote Access KVM Switches allow one or more authorized users to access connected servers over the local network or the Internet.

EXPAND DYNAMICALLY

Access up to 512 servers by connecting cost-effective expansion units. You can add capacity whenever you need it, allowing you to start with a smaller initial investment and accommodate your growing data center without disrupting existing equipment.

SUPPORT MULTIPLE **PLATFORMS**

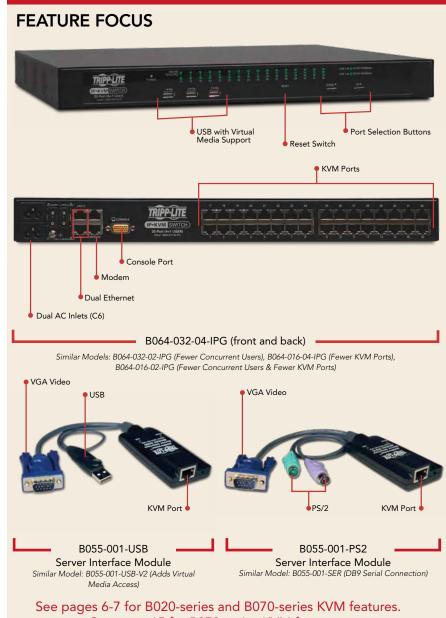
IP Remote Access KVM Switches support PS/2 or USB keyboards, with high-resolution VGA video up to 1600 x 1200. Because compatibility is based on common hardware standards rather than system software dependencies, almost any type of computer can be accommodated. Connect multiple versions of multiple platforms in any combination, including UNIX, Linux, Windows, Mac OS, Solaris and more.

STORE YOUR ENTIRE **WORKSTATION IN 1U**

IP Remote Access KVM Switches are available with or without a built-in console. Console models include a full-size keyboard, touchpad and 17- or 19-inch color LCD monitor. The entire package folds like a laptop and slides into a 1U rack drawer, providing compact storage and easy access without compromising control features.

SECURE EVERY CONNECTION

Whether you access IP Remote Access KVM Switches locally or remotely, three levels of password security accommodate user and administrator accounts. Remote access is further protected with technologies such as advanced encryption, access rights management, remote authentication and detailed activity logging.



See page 15 for B072-series KVM features.

SPECIFICATIONS														
(I)	KVM	Max				Security		(its or Server Modules ⁽⁵⁾	LAN	Modem	KVM Port Selection	Hot Keys, Auto Scan	Panel Array	RoHS
Model	Ports	Servers	LCD	Cat5	Concurrent Users	Levels	PS/2	USB	Ports	Port	Buttons	& OSD	Mode	TAA
NetDirector IP Console KVM Switches														
B020-U08-19-IP	8	504 (1)	19 in.	_	1	3	P778-Series (Inc	cludes 2 x 6 ft. Kits)	1	_	Yes	Yes (6)	Yes	
B020-016-17-IP	16	256 (2)	17 in.	_	2 (1 Remote, 1 Local)	3	P774-Series (Includes 1)	P776-Series (Includes 1)	1	_	Yes	Yes	Yes	Yes
NetDirector IP Cat5 KVM Switches														
B064-016-02-IPG	16	256 (3)	_	Yes	3 (2 Remote, 1 Local)	3	B055-001-PS2	B055-001-USB	2	Yes	Yes	Yes (6)	Yes	Yes
B064-016-04-IPG	16	256 (3)	_	Yes	5 (4 Remote, 1 Local)	3	B055-001-PS2	B055-001-USB	2	Yes	Yes	Yes (6)	Yes	Yes
B064-032-02-IPG	32	512 (3)	_	Yes	3 (2 Remote, 1 Local)	3	B055-001-PS2	B055-001-USB	2	Yes	Yes	Yes (6)	Yes	Yes
B064-032-04-IPG	32	512 ⁽³⁾	_	Yes	5 (4 Remote, 1 Local)	3	B055-001-PS2	B055-001-USB	2	Yes	Yes	Yes (6)	Yes	Yes
NetCommander IP	Cat5 Co	nsole KVI	W Switch	h										
B070-016-19-IP	16	256 (4)	19 in.	Yes	1	3	B078-101-PS2	B078-101-USB	1	_	_	Yes	_	-
NetCommander IP	Cat5 KV	/M Switch												
B072-016-1-IP	16	256 (4)	_	Yes	1	3	B078-101-PS2	B078-101-USB	1	_	_	Yes	_	Yes

Certifications vary by model. All models include mounting hardware for 1U installation in standard 19-inch racks. All models are compatible with 100-240 VAC, 50/60 Hz input (C14 inlet or dual C6 inlets) and each power supply includes a detachable power cord with a standard North American plug (5-15P). Connect a user-supplied power cord for compatibility in other regions. (1) Requires daisy-chaining additional B022-U16 units with P772-series cables. (2) Requires cascading additional B022-U16 units. (3) Requires cascading additional B022-U16 units. (5) KVM switches require one KVM cable kit or server interface module per server. Additional server interface modules not listed allow B064-series KVM switches to connect to DB9 serial ports with VT100 emulation (B055-001-SER) or support USB connections with virtual media (B055-001-USB-V2). See page 20 for more information. (6) Multilingual OSD.

TRIPP·LITE 16 / 32 PORT MULTIUSER KVM SWITCHES

MULTIUSER KVM SWITCHES

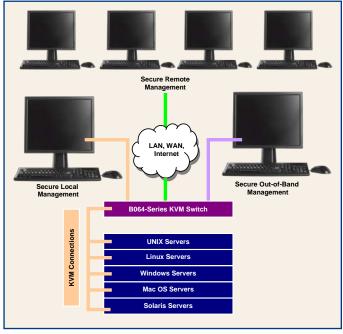


ACCOMMODATE MULTIPLE USERS

Multiuser KVM Switches allow up to eight concurrent users to access connected servers through a single gateway. Models with built-in IP remote access (also known as KVM over IP) allow multiple users to access servers over the local network or Internet. Whether in the next room or halfway around the world, they can monitor and control servers through a standard Web browser or multi-platform client software. B064-series models also support out-of-band dial-up connections to provide fail-safe access to servers if the network or Internet connection goes down. Cat5 models use efficient Cat5/5e/6 cabling that reduces clutter, improves rack airflow, leverages existing resources and allows local connections to extend up to 1,000 ft. from server to console.

MANAGE CRITICAL SYSTEMS

Multiuser KVM Switches are ideal for managing your critical systems. No server-resident software is required, so server performance and reliability are never compromised. BIOS-level access allows you to solve complex problems efficiently and restore service before downtime hurts productivity. Automatic port configuration and an on-screen display (OSD) with convenient features like custom port labeling, auto-scanning and panel array mode ease management of large installations in data centers, server rooms and other high-density environments. Upgradable firmware fine-tunes compatibility with emerging standards. B064-series models include dual power supplies and Ethernet ports for additional fault tolerance.



Multiuser KVM Switches with IP remote access allow up to four remote users and one local user to access servers concurrently.

EXPAND DYNAMICALLY

Control up to 1,024 servers by daisy-chaining and/or cascading expansion units. You can add capacity whenever you need it, allowing you to start with a smaller initial investment and accommodate your growing data center without disrupting existing equipment.

SUPPORT MULTIPLE **PLATFORMS**

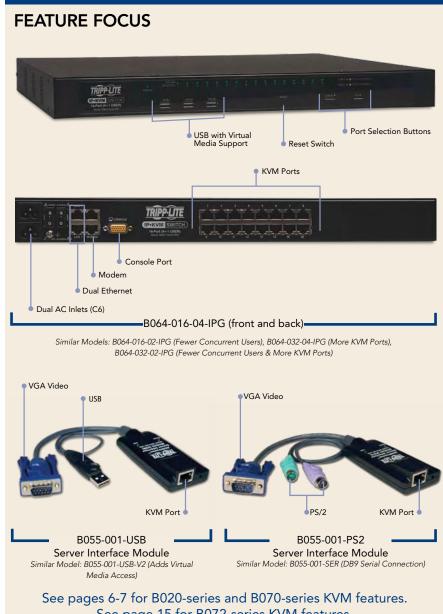
Multiuser KVM Switches support PS/2 or USB keyboards, with high-resolution VGA video up to 1600 x 1200. Compatibility is based on common hardware standards rather than system software dependencies, so almost any type of computer can be connected. Connect multiple versions of multiple platforms in any combination, including UNIX, Linux, Windows, Mac OS, Solaris and more.

STORE YOUR ENTIRE **WORKSTATION IN 1U**

Multiuser KVM Switches are available with or without a built-in console. Console models include a full-size keyboard, touchpad and 17inch color LCD monitor. The entire package folds like a laptop and slides into a 1U rack drawer, providing compact storage and easy access without compromising your control over connected servers.

SECURE EVERY CONNECTION

Whether you access Multiuser KVM Switches locally or remotely, three levels of password security accommodate user and administrator accounts. Remote access is further protected with technologies such as advanced encryption, access rights management, remote authentication and detailed activity logging.



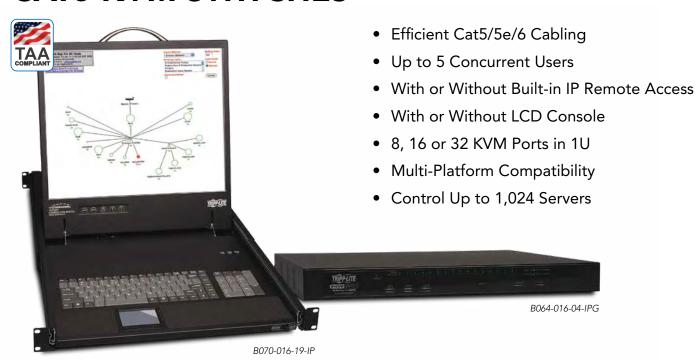
See page 15 for B072-series KVM features.

SPECIFICATIONS

Model U	KVM Ports	Max Servers	LCD	Cat5	IP Remote Access	Concurrent Users	Security Levels	KVM Cable Kits or Interface Modules (PS/2, USB & More) (4)	Modem Port	KVM Port Selection Buttons	Hot Keys, Auto Scan & OSD	Panel Array Mode	RoHS COMPLIANT
NetDirector IP Cons	sole KVIV	1 Switch											
B020-016-17-IP	16	256 (1)	17 in.	_	Built-in	2 (1 Remote, 1 Local)	3	P774/P776-Series (Includes 1 of Each)	_	Yes	Yes	Yes	Yes
NetDirector Matrix Cat5 KVM Switch													
B060-016-2	16	1,024 (2)	_	Yes	Add B051-000	2 (Local)	3	B054/B062-Series	_	_	Yes	_	Yes
NetDirector IP Cat5	KVM Sv	vitches											
B064-016-02-IPG	16	256 (3)	_	Yes	Built-in	3 (2 Remote, 1 Local)	3	B055-Series	Yes	Yes	Yes (5)	Yes	Yes
B064-016-04-IPG	16	256 (3)	_	Yes	Built-in	5 (4 Remote, 1 Local)	3	B055-Series	Yes	Yes	Yes (5)	Yes	Yes
B064-032-02-IPG	32	512 ⁽³⁾	_	Yes	Built-in	3 (2 Remote, 1 Local)	3	B055-Series	Yes	Yes	Yes (5)	Yes	Yes
B064-032-04-IPG	32	512 (3)	_	Yes	Built-in	5 (4 Remote, 1 Local)	3	B055-Series	Yes	Yes	Yes (5)	Yes	Yes

Certifications vary by model. All models include mounting hardware for 1U installation in standard 19-inch racks. All models are compatible with 100-240 VAC, 50/60 Hz input (C14 inlet or dual C6 inlets) and each power supply includes a detachable power cord with a standard North American plug (5-15P). Connect a user-supplied power cord for compatibility in other regions. (1) Requires cascading additional B022-U16 units. (2) Requires daisy-chaining additional B060-016-2 units and/or cascading additional B007-008 units. Each B060-016-2 unit includes a 2 ft. daisy-chain cable. Use P770-series cables if additional length is required. (3) Requires cascading additional B064-016 units. (4) KVM switches require one KVM cable kit or server interface module per server. All KVM models support USB & PS/2 connections. B060-series KVM models also support Sun server connections and require one B062-series interface module per console (PS/2 or USB). Additional server interface modules not listed allow B064-series KVM models to connect to DB9 serial ports with VT100 emulation (B055-001-SER) or support USB connections with virtual media (B055-001-USB-V2). See page 20 for more information. (5) Multilingual OSD.

CAT5 KVM SWITCHES



MANAGE CRITICAL SYSTEMS

Cat5 KVM Switches are ideal for managing your critical systems. No server-resident software is required, so server performance and reliability are never compromised. BIOS-level access allows you to solve complex problems efficiently and restore service before downtime hurts productivity. Automatic port configuration and an on-screen display (OSD) with convenient features like custom port labeling, auto-scanning and panel array mode ease management of large installations in data centers, server rooms and other high-density environments. Upgradable firmware finetunes compatibility with emerging standards. Efficient Cat5/5e/6 cabling reduces clutter, improves airflow in rack enclosures, leverages existing resources and allows connections from console to server to extend up to 1,000 ft. B064-series models include dual power supplies and Ethernet ports for additional fault tolerance.

SUPPORT MULTIPLE USERS

B060-series and B064-series models allow multiple concurrent users to access connected servers, with up to five simultaneously active connections. Whether users access them locally or remotely, all Cat5 KVM Switches support three levels of password security to accommodate user and administrator accounts. Each user can be granted full access or varying levels of restricted access, depending on the privileges defined by the administrator. Remote access is further protected with technologies such as advanced encryption, remote authentication and detailed activity logging.

SUPPORT MULTIPLE PLATFORMS

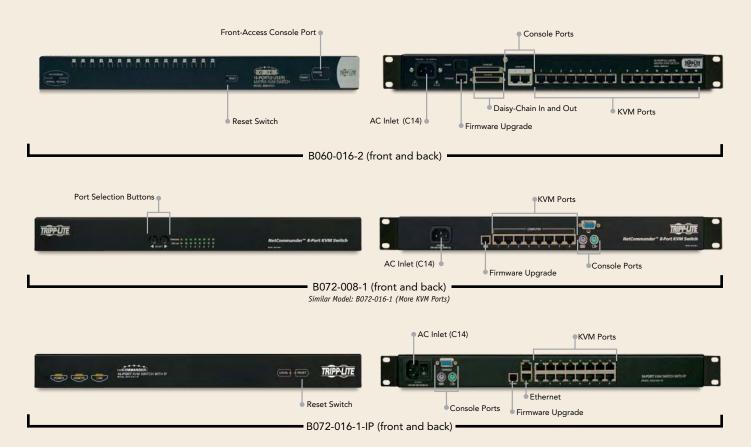
Cat5 KVM Switches support PS/2 or USB keyboards, with high-resolution VGA video up to 1600 x 1200. Because compatibility is based on common hardware standards rather than system software dependencies, almost any type of computer can be accommodated. Connect multiple versions of multiple platforms in any combination, including UNIX, Linux, Windows, Mac OS, Solaris and more.

ACCESS SERVERS ANYWHERE

KVM switches with built-in IP remote access (also known as KVM over IP) allow you to access your connected servers over the local network or Internet. Whether you're in the next room or halfway around the world, you'll be able to monitor and control your servers through a standard Web browser or multi-platform client software. Models without built-in IP remote access allow you to add it through an optional IP Remote Access Unit. In addition, local console connections for B064-series and B072-series models can be extended up to 330 ft. by adding a Cat5 Console Extender. (See page 19 for more information.)

EXPAND DYNAMICALLY

Access up to 1,024 servers by connecting cost-effective expansion units. You can add capacity whenever you need it, allowing you to start with a smaller initial investment and accommodate your growing data center without disrupting existing equipment.



See pages 11 and 13 for B064-series KVM features. See page 7 for B070-series KVM features.

SPECIFICATIO	NS												
Model	KVM Ports	Max Servers	LCD	IP Remote	Concurrent Users	Security Levels	Interface Modules (PS/2, USB & More) (5)	Max Distance (Switch to Server)	Modem Port	KVM Port Selection Buttons	Hot Keys, Auto Scan & OSD	Panel Array Mode	ROHS
NetDirector Matrix	Cat5 KVI	M Switch		l			,	,					1
B060-016-2	16	1,024 (1)	_	Add B051-000	2 (Local)	3	B054/B062-Series	500 ft. (7)	_	_	Yes	_	Yes
NetDirector & NetDirector IP Cat5 KVM Switches													
B064-016	16	512 (2)	_	Add B051-000	1	2	B055-Series (6)	165 ft.	_	Yes	Yes (8)	_	Yes
B064-016-02-IPG	16	256 (3)	_	Built-in	3 (2 Remote)	3	B055-Series	165 ft.	Yes	Yes	Yes (8)	Yes	Yes
B064-016-04-IPG	16	256 ⁽³⁾	_	Built-in	5 (4 Remote)	3	B055-Series	165 ft.	Yes	Yes	Yes (8)	Yes	Yes
B064-032-02-IPG	32	512 ⁽³⁾	_	Built-in	3 (2 Remote)	3	B055-Series	165 ft.	Yes	Yes	Yes (8)	Yes	Yes
B064-032-04-IPG	32	512 ⁽³⁾	_	Built-in	5 (4 Remote)	3	B055-Series	165 ft.	Yes	Yes	Yes (8)	Yes	Yes
NetCommander Cat	5 Conso	le KVM Sw	itches										
B070-008-19	8	128 (4)	19 in.	Add B051-000	1	3	B078-Series	100 ft.	_	Yes	Yes	_	_
B070-016-19	16	256 (4)	19 in.	Add B051-000	1	3	B078-Series	100 ft.	_	Yes	Yes	_	_
B070-016-19TAA	16	256 (4)	19 in.	Add B051-000	1	3	B078-Series	100 ft.	_	Yes	Yes	_	Yes
B070-016-19-IP	16	256 (4)	19 in.	Built-in	1	3	B078-Series	100 ft.	_	Yes	Yes	_	_
NetCommander Cat	5 KVM S	witches											
B072-008-1	8	128 (4)	_	Add B051-000	1	3	B078-Series	100 ft.	_	Yes	Yes	_	Yes
B072-016-1	16	256 (4)	_	Add B051-000	1	3	B078-Series	100 ft.	_	Yes	Yes	_	Yes
B072-016-1-IP	16	256 (4)	_	Built-in	1	3	B078-Series	100 ft.	_	_	Yes	_	Yes

Certifications vary by model. All models include mounting hardware for 1U installation in standard 19-inch racks. All models are compatible with 100-240 VAC, 50/60 Hz input (C14 inlet or dual C6 inlets) and each power supply includes a detachable power cord with a standard North American plug (5-15P). Connect a user-supplied power cord for compatibility in other regions. (1) Requires daisy-chaining additional B060-016-2 units and/or cascading additional B007-008 units. Each B060-016-2 unit includes a 2 ft. daisy-chain cable. Use P770-series cables if additional length is required. (2) Requires daisy-chaining additional B064-016 units with P772-series cables. (3) Requires cascading additional B064-016 units. (4) Requires cascading additional B072-008-1 or B072-016-1 units. (5) KVM switches require one interface module per server. All KVM models support USB & PS/2 connections. B060-series KVM switches require one interface modules not listed allow B064-series KVM switches to connect to DB9 serial ports with VT100 emulation (B055-001-SER) or support USB connections with virtual media (B055-001-USB-V2). See page 20 for more information. (6) Does not support B055-001-USB-V2. (7) Also supports 500 ft. distance from switch to console. (8) Multilingual OSD.

TRIPP·LITE 4 / 8 / 16 PORT STANDARD KVM SWITCHES

STANDARD KVM SWITCHES



B042-008

- 4, 8 or 16 KVM Ports in 1U
- Multi-Platform Compatibility
- Convenient Expansion Options
- Control Up to 512 Servers
- Plug-and-Play Setup

MANAGE MULTIPLE SERVERS

Standard KVM Switches allow you to access multiple servers from a single console (keyboard, mouse and monitor). No server-resident software is required, so server performance and reliability are never compromised. BIOS-level access allows you to solve complex problems efficiently and restore service before downtime hurts productivity. Convenient features like automatic port configuration, hot keys, port selection buttons, auto-scanning and an on-screen display (OSD) facilitate server management. Uncomplicated controls and proven architecture ensure dependable operation in high-availability environments.

SUPPORT MULTIPLE PLATFORMS

Standard KVM Switches support PS/2 or USB keyboards, with high-resolution VGA video up to 2048 x 1536. Because compatibility is based on common hardware standards rather than system software dependencies, almost any type of computer can be accommodated. Connect multiple versions of multiple platforms in any combination, including UNIX, Linux, Windows, Mac OS, Solaris and more.

EXPAND DYNAMICALLY

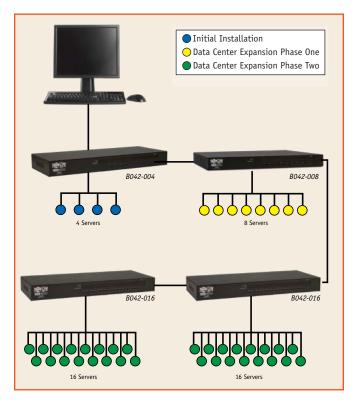
Access up to 512 servers by connecting one or more costeffective expansion units. You can add capacity whenever you need it, allowing you to start with a smaller initial investment and accommodate your growing data center without disrupting existing equipment.

ACCESS SERVERS ANYWHERE

Connect an optional IP Remote Access Unit to control your servers over the local network or Internet. In addition, local console connections can be extended up to 330 ft. by adding a Cat5 Console Extender. (See page 19 for more information.)

CONNECT TO RACK CONSOLES AND CONSOLE KVM SWITCHES

Use economical Standard KVM Switches to expand the number of servers you can connect to more expensive models, such as Console KVM Switches. Refer to the specifications in each section for compatibility information. In addition, all models connect to B021-series Rack Consoles, which do not have a built-in KVM switch. (See pages 8-9 for more information about Rack Consoles.)



Manage additional servers by connecting additional KVM switches whenever required.



B042-008 (front and back)

Similar Models: B042-004 (Fewer KVM Ports), B042-016 (More KVM Ports)

Port Selection Buttons

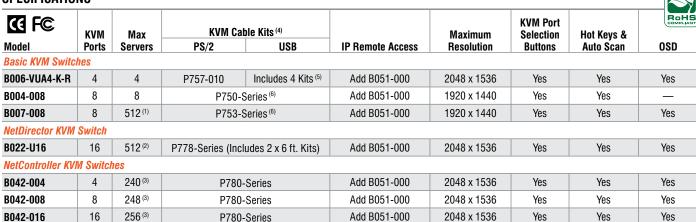
Console Ports

Daisy-Chain In and Out

KVM Ports

See page 18 for B006-VUA4-K-R features.

SPECIFICATIONS



Certifications vary by model. All models include mounting hardware for 1U installation in standard 19-inch racks. All models are compatible with 100-240 VAC, 50/60 Hz input and include an AC adapter with a standard North American plug. Connect a user-supplied plug adapter for compatibility in other regions. (1) Requires cascading additional B007-008 units. (2) Requires daisy-chaining additional B022-U16 units with P772-series cables. (3) Requires daisy-chaining additional B042-series units. Each B042-series unit includes an 8 in. daisy-chain cable. Use P781-series cables if additional length is required. (4) KVM switches require one cable kit and/or adapter per server. See page 20 for more information. (5) Includes 2 x 4 ft. and 2 x 6 ft. cable kits. 10 ft. cable kits (P756-010) are also available. (6) Add B015-000 adapter for USB compatibility.

DESKTOP KVM SWITCHES



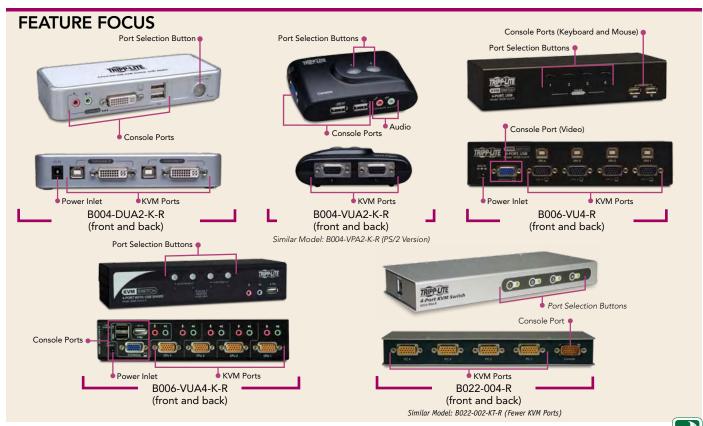
- Control Up to 4 Computers
- Multi-Platform Compatibility
- Plug-and-Play Setup
- Compact Form Factor

CONTROL MULTIPLE COMPUTERS

Desktop KVM Switches allow you to control up to four computers from a single console (keyboard, mouse and monitor). Switch between computers with hot keys, optional software or convenient port selection buttons. Plug-and-play setup does not require software installation. Select models allow you to share audio components between computers.

SUPPORT A VARIETY OF PLATFORMS

Desktop KVM Switches support PS/2 or USB keyboards and mice (including wireless keyboards and mice), with high-resolution VGA or DVI video up to 2048 x 1536. Because compatibility is based on common hardware standards, you can connect almost any type of computer.



SPECIFICATIONS	ATIONS	CA	IFI	C	Έ	SP	
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or Edit Idiation										
CE F©	KVM	KVM Ca	able Kits (1)		Maximum		KVM Port Selection	Hot Keys &		
Model	Ports	PS/2	USB	Video	Resolution	Audio	Buttons	Auto Scan		
Compact Desktop KVM Switches										
B004-DUA2-K-R	2	_	Includes 2 x 6 ft. Kits	DVI	2048 x 1536 Analog 1920 x 1200 Digital	Yes	Yes	Yes		
B004-VPA2-K-R	2	Includes 2 x 4 ft. Kits	_	VGA	2048 x 1536	Yes	Yes	Yes		
B004-VUA2-K-R	2	_	Includes 2 x 4 ft. Kits	VGA	2048 x 1536	Yes	Yes	Yes		
B022-002-KT-R	2	Includes 2 x 6 ft. Kits	Add B015-000	VGA	1920 x 1440	_	Yes	Yes		
B006-VU4-R	4	_	P758-Series	VGA	2048 x 1536	_	Yes	Yes		
B006-VUA4-K-R	4	P757-010	Includes 4 Kits (2)	VGA	2048 x 1536	Yes	Yes	Yes		
B022-004-R	4	P774-Series	P776-Series	VGA	2048 x 1536	_	Yes	Yes		

Certifications vary by model. Models B004-DUA2-K-R, B006-VU4-R and B006-VUA4-K-R are compatible with 100-240 VAC, 50/60 Hz input and include an AC adapter with a standard North American plug. Connect a user-supplied plug adapter for compatibility in other regions. Other models do not require external power. (1) KVM switches require one cable kit and/or adapter per computer. See page 20 for more information. (2) includes 2 x 4 ft. and 2 x 6 ft. cable kits. 10 ft. cable kits (P756-010) are also available.

CAT5 CONSOLE EXTENDER

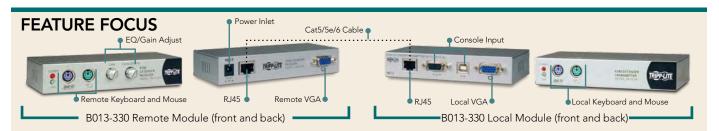


EXTEND CONSOLE CONNECTIONS

Cat5 Console Extenders allow you to place your console up to 330 ft. away from your KVM switch. A local module connects directly to the KVM switch and transmits keyboard, video and mouse data to a remote module via user-supplied Cat5/5e/6 cabling. Your console connects directly to the remote

- Place Consoles Up to 330 ft. Away
- Local and Remote Console Connections
- Efficient Cat5/5e/6 Cabling

module. You can also connect a console to the local module, giving you two separate points of access. Efficient Cat5/5e/6 cabling reduces clutter, improves airflow in rack enclosures and leverages existing resources.



SPECIFICATIONS

Model CE	Maximum Distance (1)	KVM/Server Compatibility (2)	Maximum Resolution
B013-330	330 ft.	PS/2 & USB (Included)	1600 x 1200

B013-330 is compatible with 100-240 VAC, 50/60 Hz input and includes an AC adapter with a standard North American plug. Connect a user-supplied plug adapter for compatibility in other regions. (1) Tripp Lite recommends N105-series shielded patch cables to connect local and remote modules. See page 20 for more information. (2) PS/2 keyboard and mouse required for console.

IP REMOTE ACCESS UNIT





B051-000

- Add IP Remote Access to a KVM Switch
- Up to 32 Concurrent Logins
- Optional Dial-Up Access
- Virtual Media Support

include password protection, encryption, bandwidth-optimized video, USB virtual media access and a modem port for optional out-of-band dial-up access to equipment when the local network or Internet connection goes down.

ACCESS KVMS AND SERVERS ANYWHERE

IP Remote Access Units add secure IP remote access to your KVM switch or server without requiring additional rack space. They can be used for system administration, BIOS-level troubleshooting, installing GUI applications, rebooting equipment and more. They



SPECIFICATIONS Concurrent Security KVM/Server **USB Virtual** Maximum Œ Model Logins Levels Compatibility Modem Port OSD **Media Access** Resolution TAA 1600 x 1200 B051-000 Up to 32 3 PS/2 & USB (Included) Yes Yes Yes Yes



CABLE KITS, ADAPTERS & ACCESSORIES

Model	Description	Model	Description
B012-000	PS/2 Keyboard/Mouse Emulator (For blade server or headless server.)	P753-010	PS/2 Cable Kit for B007-008 – 10 ft. (2)
B013-330	330 ft. Cat5 Console Extender (PS/2 & USB) (1) – See page 19.	P753-015	PS/2 Cable Kit for B007-008 – 15 ft. (2)
B015-000	USB to PS/2 Adapter (Connects USB server to PS/2 cable kit.)	P756-010	USB Cable Kit for B006-VUA4-K-R – 10 ft.
B019-000	2-Post Rack Adapter for Console KVMs and Rack Consoles	P757-010	PS/2 Cable Kit for B006-VUA4-K-R – 10 ft.
B051-000	IP Remote Access Unit (PS/2 & USB) – See page 19.	P758-006	USB Cable Kit for B006-VU4-R – 6 ft.
B054-001-PS2	PS/2 Server Interface Module for B060-Series (1)	P758-010	USB Cable Kit for B006-VU4-R – 10 ft.
B054-001-SUN	Sun Server Interface Module for B060-Series (1)	P770-013	Daisy-Chain Cable for B060-Series – 13 ft. (3)
B054-001-USB	USB Server Interface Module for B060-Series (1)	P770-06M	Daisy-Chain Cable for B060-Series – 6 m (3)
B055-001-PS2	PS/2 Server Interface Module for B064-Series (1)	P770-10M	Daisy-Chain Cable for B060-Series – 10 m (3)
B055-001-SER	DB9 Serial Interface Module for B064-Series (1)	P772-002	Daisy-Chain Cable for B020/B022-Series – 2 ft.
B055-001-USB	USB Server Interface Module for B064-Series (1)	P772-006	Daisy-Chain Cable for B020/B022-Series – 6 ft.
B055-001-USB-V2	USB Server Interface Module with Virtual Media Support for B064-Series (1)	P772-015	Daisy-Chain Cable for B020/B022-Series – 15 ft.
B062-002-PS2	PS/2 Console Interface Module for B060-Series (1)	P774-006	PS/2 Cable Kit for B020/B022-Series – 6 ft.
B062-002-USB	USB Console Interface Module for B060-Series (1)	P774-010	PS/2 Cable Kit for B020/B022-Series – 10 ft.
B078-101-PS2	100 ft. PS/2 Server Interface Module for B070/B072-Series (1)	P774-015	PS/2 Cable Kit for B020/B022-Series – 15 ft.
B078-101-USB	100 ft. USB Server Interface Module for B070/B072-Series (1)	P774-025	PS/2 Cable Kit for B020/B022-Series – 25 ft.
B090-A9F	IP Console Server Straight-Through Adapter – Cisco RJ45 Female to DB9 Female	P776-006	USB Cable Kit for B020/B022-Series – 6 ft.
B090-A9F-X	IP Console Server Crossover Adapter – Cisco RJ45 Female to DB9 Female	P776-010	USB Cable Kit for B020/B022-Series – 10 ft.
B090-A9M	IP Console Server Straight-Through Adapter – Cisco RJ45 Female to DB9 Male	P776-019	USB Cable Kit for B020/B022-Series – 19 ft.
N105-010-GY	Gray Cat5e 350MHz Molded Shielded Patch Cable – 10 ft.	P778-006	USB & PS/2 Cable Kit for B020-U-Series – 6 ft.
N105-025-GY	Gray Cat5e 350MHz Molded Shielded Patch Cable – 25 ft.	P778-010	USB & PS/2 Cable Kit for B020-U-Series – 10 ft.
N105-050-GY	Gray Cat5e 350MHz Molded Shielded Patch Cable – 50 ft.	P778-015	USB & PS/2 Cable Kit for B020-U-Series – 15 ft.
N105-100-GY	Gray Cat5e 350MHz Molded Shielded Patch Cable – 100 ft.	P780-006	USB & PS/2 Cable Kit for B040/B042-Series – 6 ft.
P120-000	VGA Female to DVI-A Male Adapter (Connects DVI video card to VGA input.)	P780-010	USB & PS/2 Cable Kit for B040/B042-Series – 10 ft.
P126-000	VGA Male to DVI-I Female Adapter (Connects DVI monitor to VGA output.)	P780-015	USB & PS/2 Cable Kit for B040/B042-Series – 15 ft.
P750-006	PS/2 Cable Kit for B004-008 – 6 ft. (2)	P781-003	Daisy-Chain Cable for B040/B042-Series – 3 ft. (4)
P750-010	PS/2 Cable Kit for B004-008 – 10 ft. (2)	P781-006	Daisy-Chain Cable for B040/B042-Series – 6 ft. (4)
P750-015	PS/2 Cable Kit for B004-008 – 15 ft. (2)	P781-010	Daisy-Chain Cable for B040/B042-Series – 10 ft. (4)
P753-006	PS/2 Cable Kit for B007-008 – 6 ft. (2)	P781-016	Daisy-Chain Cable for B040/B042-Series – 16 ft. (4)

⁽¹⁾ Use with N105-series shielded patch cables or other Cat5/5e/6 cabling. (2) Add B015-000 adapter for USB compatibility. (3) B060-016-2 includes a 2 ft. daisy-chain cable. (4) Each B042-series KVM includes an 8 in. daisy-chain cable.

ABOUT TRIPP LITE

Since 1922, Tripp Lite has established a global reputation for quality manufacturing, superior value and excellent service. Tripp Lite makes more than 3,000 products to power, protect and connect electronic equipment, including UPS systems, replacement batteries, power distribution units, rack systems, cooling solutions, surge suppressors, KVM switches, cables, laptop accessories, power strips and inverters. Learn more at www.tripplite.com.

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