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Owner's Manual

NetCommander™ Cat5 Rackmount Console KVM Switches

Models #: B070-008-19 & B070-016-19



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www.triplite.com/support



Note: Follow these instructions and operating procedures to ensure correct performance and to prevent damage to this unit or to its connected devices.

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Features

- 8-port or 16-port KVM switch with built-in 19" LCD display, keyboard and touch pad
- Access and control multiple multi-platform computers from a single console
- Hot-swappable: disconnect and reconnect USB computers without rebooting
- Auto-scan: with variable time interval
- Compact design: 1U rack mountable
- Easy port selection using (1) On Screen Display (OSD), (2) keyboard hotkeys key sequences
- Expandable: control up to 256 computers by adding additional KVM switches
- Simple cable management: use standard Cat5e patch cord (maximum distance 100 ft) to connect to each computer
- Built-in monitor supports resolutions up to 1280 x 1024
- Multi-platform: supports PS/2 and USB computers/server
- Compatible with Windows®, Mac®, Linux, UNIX and DOS
- Optional Tripp Lite B050-000 or B051-000 IP Remote Access Unit to access the KVM via LAN, WAN or the Internet

Package Includes

- B070-008-19 or B070-016-19 19" Cat5 Console KVM Switch
- C13 to 5-15P Power Cord
- RJ11 to DB9 Firmware Upgrade Cable
- Rackmount Hardware
- Jumper Cable (to connect the KVM console ports to the integrated console ports*)

* The included jumper must be connected for the unit to function.

Accessories

- B072-008-1 or B072-016-1 Cat5 Rackmount KVM Switch
- B078-101-PS2 Server Interface Unit; PS/2
- B078-101-USB Server Interface Unit; USB
- N001-Series Snagless Cat5e Patch Cables
- N002-Series Cat5e Patch Cables
- N201-Series Cat6 Snagless Patch Cables
- B050-000 or B051-000 IP Remote Access Unit

Configuration

Front View

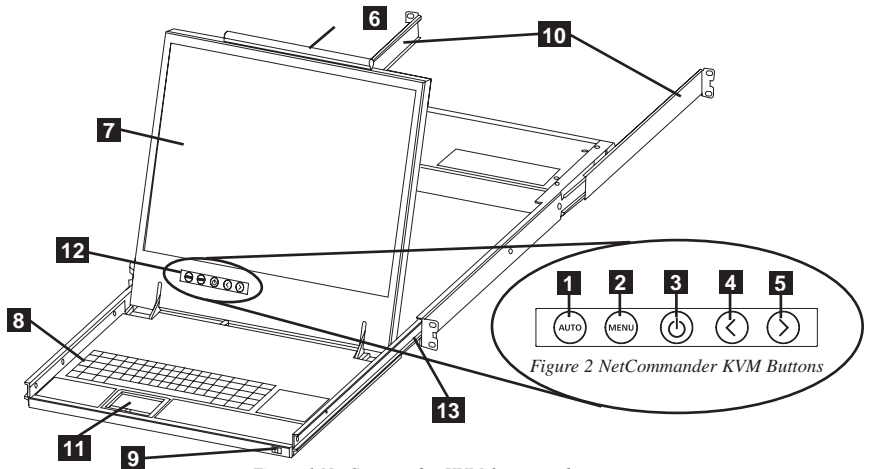


Figure 1 NetCommander KVM front panel

Figure 2 NetCommander KVM Buttons

- 1 Auto:** When the LCD Menu is closed, pressing the AUTO button will perform an Auto Adjust on the monitor screen. When the LCD Menu is open, pressing the AUTO button will bring you back to the previous screen/selection. If the LCD Menu cannot go back any further, the AUTO button will close down the menu.
- 2 Menu:** When the LCD Menu is closed, pressing the MENU button will open it. When the LCD Menu is open, pressing the MENU button will select a highlighted option.
- 3 On/Off Button:** Pressing this button will turn the monitor screen on or off.
- 4 < :** When the LCD Menu is open, pressing the < button will move the highlight bar to the left. When modifying a selected option, pressing the < button will decrease the option.
- 5 > :** When the LCD Menu is open, pressing the > button will move the highlight bar to the right. When modifying a selected option, pressing the > button will increase the option.
- 6 Handle:** Pull to slide the module out; push to slide the module in.
- 7 19" LCD Monitor:** After sliding the module out, flip up the cover to access the LCD monitor, keyboard and touch pad.
- 8 Keyboard**
- 9 Slide Release:** Mechanism to lock the drawer closed when the console is not in use. Prevents it from accidentally sliding open. To slide the console out, you must first release it by moving the tab sideways.
- 10 Rackmounting Brackets:** There are rackmount brackets to secure the chassis to a system rack located at each corner of the unit.
- 11 2-Button Touch Pad:** Left button is left click, right is right click.
- 12 LCD Display Controls:** The LCD OSD controls located here control the position and picture settings of the LCD display. See LCD OSD configuration for details.
- 13 Railway Release Tabs:** When the drawer is completely pulled out to the end, the railway system will lock. Push the release tabs on both sides to release the drawer so that it can be pushed back in.

Configuration *(continued)*

Rear View

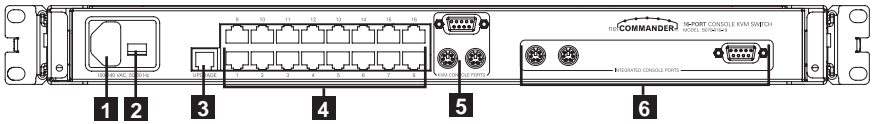


Figure 3 NetCommander KVM rear panel

- 1 Power Socket:** The power cord plugs in here from the AC power source.
- 2 On/Off Switch:** Turns the KVM Switch on and off.
- 3 Firmware Upgrade Port:** Plug included firmware upgrade cable into this port to download firmware upgrade data.
- 4 CPU Port Section:** Plug the Cat5e cables from each PC or server into these ports.
- 5 KVM Console Ports***
- 6 Integrated Console Ports***

* The KVM comes with a Jumper Cable to connect the Integrated Console Ports to the KVM Console Ports. This cable must be connected for the unit to function. Do not remove the Jumper Cable unless you are installing a Tripp Lite B050-000 or B051-000 IP Remote Access Unit. See the IP Remote Access Unit connection instructions on page 10 for details.

Installation

Pre-Installation Guidelines

- Switch off all computers*
- The KVM comes with a Jumper Cable to connect the Integrated Console Ports to the KVM Console Ports. This cable must be connected for the unit to function. Do not remove the Jumper Cable unless you are installing a Tripp Lite B050-000 or B051-000 IP Remote Access Unit. See the IP Remote Access Unit connection instructions on page 10 for details.
- Ensure that the cables are not close to any sources of electrical noise interference such as fluorescent lights, HVAC systems or motors
- Ensure that the distance between any computer and the KVM switch does not exceed 100 ft.

* PS/2 computers need to have the Keyboard and Mouse connectors installed before they are turned on. If you plug the Keyboard and Mouse connectors into an active PS/2 computer, it may not recognize them, causing them not to work.

Connecting the NetCommander KVM System

Connect each computer to the KVM switch using a Tripp Lite B078-101-PS2* or B078-101-USB* Server Interface Unit (SIU) and a Cat5e patch cable.

* Cat5 cable should be no longer than 100 ft..

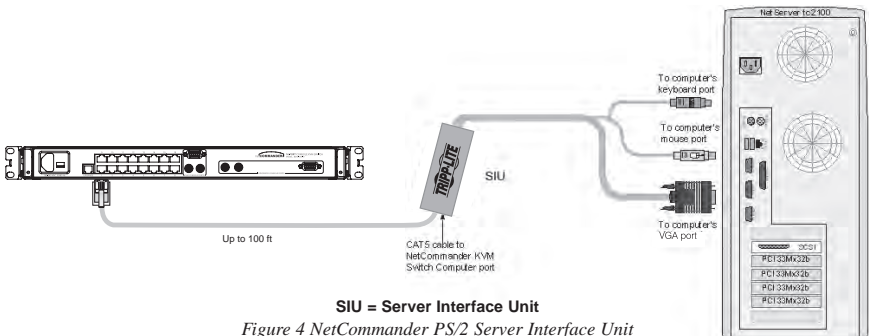
NetCommander Server Interface Unit (SIU)

The NetCommander Server Interface Unit

The Server Interface Unit gets its power from the connected computer. In the case of the NetCommander PS/2 Server Interface Unit (B078-101-PS2), the power is drawn from the keyboard port. In the case of the NetCommander USB Server Interface Unit (B078-101-USB), the power is drawn from the USB port. When connected and receiving power, the green LED on the SIU will illuminate. When connected to the active port on the KVM, the orange LED will illuminate.

Connecting a NetCommander PS/2 Server Interface Unit (Model # B078-101-PS2)

1. Shut down the computer being connected to the B078-101-PS2 (SIU)
2. Connect the B078-101-PS2 VGA connector to the computers VGA port
3. Connect the B078-101-PS2 PS/2 Keyboard connector to the computers PS/2 Keyboard port
4. Connect the B078-101-PS2 PS/2 Mouse connector to the computers PS/2 Mouse port
5. Connect one end of the Cat5 patch cable to the RJ45 port on the B078-101-PS2*
6. Connect the other end of the Cat5 patch cable to the desired RJ45 port on the Console KVM.* The green LED will illuminate when connected and receiving power.
7. Repeat these steps for each additional PS/2 computer/server you are connecting to the Console KVM



Installation *(continued)*

Connecting a NetCommander USB Server Interface Unit (Model # B078-101-USB)

1. Connect the B078-101-USB VGA connector to the computers VGA port
2. Connect the B078-101-USB USB connector to the computers USB port
3. Connect one end of the Cat5 patch cable to the RJ45 port on the B078-101-USB*
4. Connect the other end of the Cat5 patch cable to the desired RJ45 port on the Console KVM.* The green LED will illuminate when the SIU is connected and receiving power.
5. Repeat these steps for each additional USB computer/server you are connecting to the Console KVM

* Cat5 cable should be no longer than 100 ft.

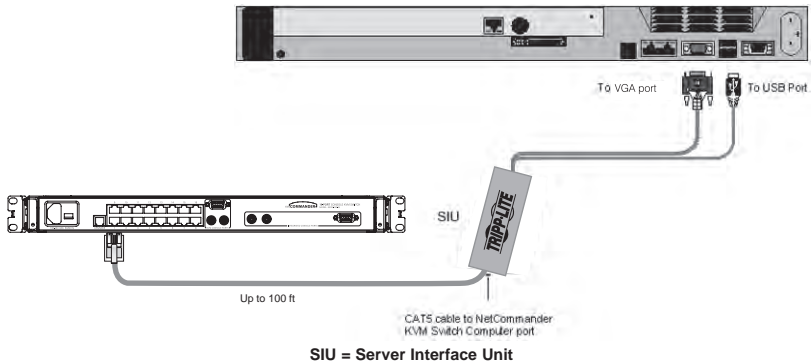


Figure 5 NetCommander USB Server Interface Unit

Connecting the Power Supply

1. Plug in the KVM using only the power cord supplied with the unit.
2. Switch ON the Console KVM.

Resetting the KVM Switch

To reset the KVM switch, turn the unit off and then back on using the power switch on the back. The Server Interface Units are unaffected by this reset.

Rackmount Considerations

Ambient Operating Temperature

The ambient operating temperature in the rack may be an issue and is dependent upon the rack load and ventilation. When installing in a closed or multi-unit rack assembly, make sure that the temperature will not exceed the maximum rated ambient temperature. (32° to 104° F)

Airflow

Ensure that the airflow within the rack is not compromised.

Circuit Overloading

When connecting the equipment to the supply circuit, consider the effect that overloading of circuits might have on over-current protection and supply wiring.

Reliable grounding of rack-mounted equipment should be maintained.

To protect against circuit overloading you should connect your B070-016-19 Console KVM and attached computers/servers to a Tripp Lite SmartPro® or SmartOnline® UPS System.

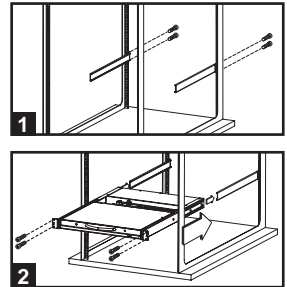
Rackmounting the NetCommander KVM

The NetCommander Console KVM is designed for mounting in a 1U rack system. For convenience, a rack mounting kit is included for quick installation. The various mounting options are explained in the sections that follow.

Standard Rackmounting

The standard rackmounting brackets that come attached to the console allow the unit to be installed in standard 1U racks by a single individual.

- 1 Slide out the rear mounting brackets from the console and mount both brackets (separate from the console) to the inside rear of a standard 1U rack system using user-supplied screws.
- 2 Take the console and gently slide it into the two rear-mounted brackets in the rack and secure the console in place by inserting user-supplied screws.



2-Post Rackmounting

The Console KVM can also be mounted in a 2-post rack installation using the optional 2-Post Rackmount Kit (model #: B019-000). The mounting hardware allows for the console to be opened with the drawer in any position. Heavy-duty 14-gauge steel provides stability and prevents the console frame from twisting. See the B019-000 instructional manual for detailed mounting instructions.

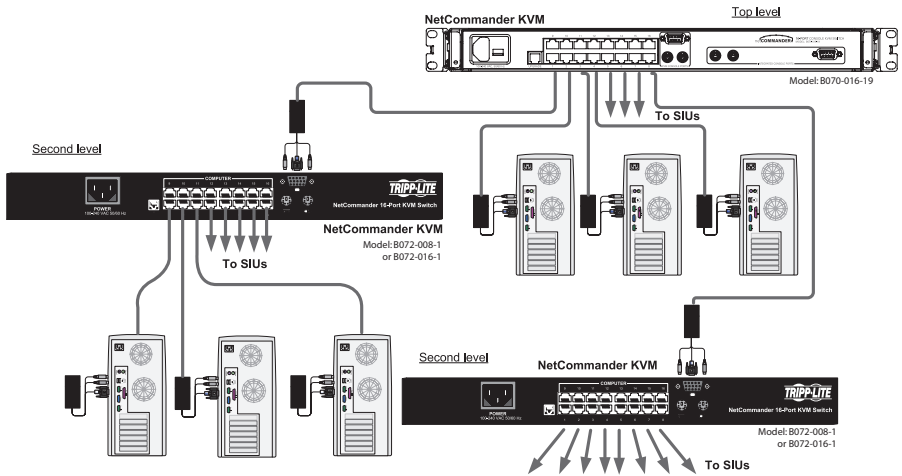
Installation *(continued)*

Cascading NetCommander KVM Switches

To cascade two or more NetCommander KVM switches, follow the instructions below. Connect up to 256 computers* using any combination of B072-008-1 and B072-016-1 KVM switches. You can only cascade 1 extra level of KVM switches onto the Console KVM.

* When all 16 ports of a B070-016-19 have a B072-016-1 cascaded from them.

Setting the different OSD display hotkeys for cascaded KVMs is explained on page 14.



SIU = Server Interface Unit

Figure 6 Cascading NetCommander KVM switches

Installation *(continued)*

Connecting a B050-000 or B051-000 IP Remote Access Unit to the B070-016-19

1. Disconnect the Jumper Cable Console Connectors that are plugged into the KVM Console Ports.
2. Plug the end of the Jumper Cable you just disconnected into the Local Console Ports of the IP Remote Access Unit.
3. Plug the PS/2 and VGA connectors from the IP Remote Access Unit into the KVM Console Ports.
4. For further setup instructions for the B050-000 or B051-000 IP Remote Access Unit refer to the Owner's Manual that comes with the unit.

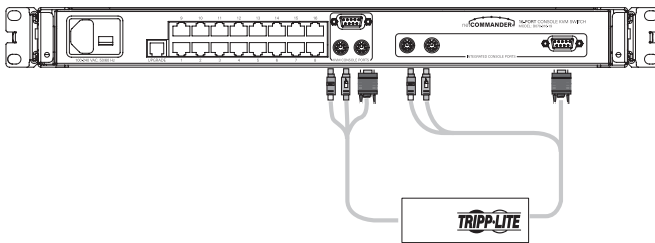


Figure 7 Connecting a B050-000 or B051-000 IP Remote Access Unit

Operation

Basic Operation

Switch between the connected computers using any of the following methods:

- The OSD (On Screen Display)
- Keyboard hotkey commands

The OSD is also used to adjust various settings.

A confirmation label at the top of your monitor screen identifies which computer is currently selected.

Keyboard Hotkeys

To switch to the next computer, press and release the [Shift] key, then press the [+] key.

To switch to the previous computer, press and release the [Shift] key, then press the [-] key.

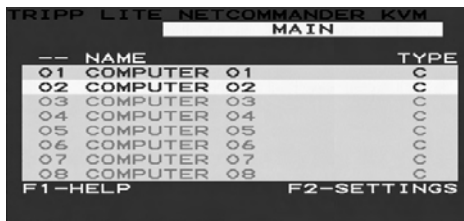
Note! You can use the [+] key of the alphanumeric section or of the numeric keypad on a US English keyboard. With a Non-US English keyboard, use the [+] key of the numeric keypad only.

Operation *(continued)*

On-Screen Display

To invoke the OSD:

Press and release the Shift key twice to open the OSD Main Menu. Lines with Blue text represent ports that have a computer/server connected to them, which is currently turned on. Lines with Gray text represent ports that either has a computer/server connected to them, which is turned off; or they have no computer/server connected at all. The Type column indicates whether a computer/server (C) is connected to the port or a KVM Switch (S) is connected to the port. For the Type column to display S, the user must change the Hotkey setting for the cascaded KVM. (See page 14 for details.)



```
TRIPP LITE NETCOMMANDER KVM
MAIN
-- NAME                                TYPE
01 COMPUTER 01                         C
02 COMPUTER 02                         C
03 COMPUTER 03                         C
04 COMPUTER 04                         C
05 COMPUTER 05                         C
06 COMPUTER 06                         C
07 COMPUTER 07                         C
08 COMPUTER 08                         C
F1-HELP                                F2-SETTINGS
```

Figure 8 The OSD Main Window

Navigating the OSD

To move up and down, use the [↑] and [↓] arrow keys.

To jump from one column to the next (when relevant), use the [Tab] key.

To exit the OSD or to return to the previous OSD window, press [Esc].

Selecting a Computer

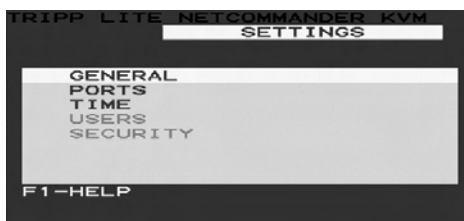
To select a computer:

1. Move to the desired computer line.
2. Press the Enter key. The selected computer will be accessed and the OSD screen will close.

Note: While the OSD Screen is active the Keyboard Hotkey Commands and Mouse will be deactivated.

OSD Settings (F2)

Press [F2] to open the OSD Settings window (see Figure 9).



```
TRIPP LITE NETCOMMANDER KVM
SETTINGS
GENERAL
PORTS
TIME
USERS
SECURITY
F1-HELP
```

Figure 9 The Settings Window

Note: If the OSD is password protected, only the Administrator will be able to get access to the F2 settings window by using the appropriate password.

General Settings

With the highlight line on the word GENERAL, press **[Enter]**. The General Settings window appears (see Figure 10).

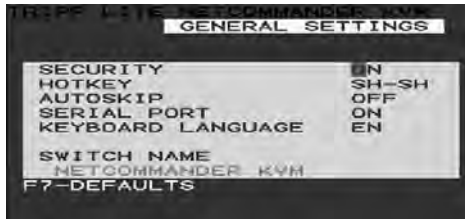


Figure 10 The General Settings window

Security

The Security option in the OSD General Settings Menu allows you to activate or deactivate Password Security. By default, Password Security is set to Off. Only the Administrator will be able to activate/deactivate Password Security.

To activate/deactivate Password Security:

1. Highlight the Security option in the OSD General Settings Menu
2. Press the space bar to change Password Security On/Off
3. Pressing the space bar will display a prompt requiring you to enter the Security Password. (Security Password defaults as 'Admin')
4. Once you've typed in the correct password and hit enter, the Password Security status will be changed

Note: Once Password Security is activated, Hotkey Commands will be deactivated, leaving you limited to the OSD Menu as your only way to select a port. Once you leave the OSD Menu, you will need to hit the 'Shift, Shift' command to access the OSD Menu and select another port. You will be required to enter your password each time you enter the OSD Menu.

* See page 16-17 for more information on the Security features.

Changing the OSD Hotkey

By default the primary Hotkey is the Shift key. You have the ability to replace the Shift key with one of 4 different choices in the OSD General Settings Menu.

(SH-SH): This represents the Shift key. To access the OSD Menu you hit 'Shift, Shift.' To access the next KVM in line hit 'Shift, +'.' To access the previous KVM in line hit 'Shift, -.'

(CL-CL): This represents the Ctrl key. To access the OSD Menu you can either hit the Left Ctrl key 2 times or you can hit the Right Ctrl key once and then the Left Ctrl key. You can hit either Ctrl key once and the + key to access the next KVM in line. You can hit either Ctrl key once and the - key to access the previous KVM in line.

(CLF11): This represents the Ctrl key and the F11 key. To access the OSD Menu you hit either Ctrl key and then F11. You can hit either Ctrl key once and the + key to access the next KVM in line. You can hit either Ctrl key once and the - key to access the previous KVM in line.

(PRSCR): This represents the Print Screen key. To access the OSD Menu you hit the Print Screen key once. When you select Print Screen as your hotkey, the port selection hotkey commands are deactivated, leaving the OSD Main Menu as the only way to switch to another port.

Operation *(continued)*

When you have cascaded KVM switches, a lower level Switch must have a different OSD display hotkey than a higher level switch.

To change the top-level switch hotkey:

1. Highlight the Hotkey option in the OSD General Settings Menu
2. Press the space bar to toggle through the various options
3. When you've selected the desired hotkey, simply exit the OSD. Hitting the Enter key is not required to activate your selection

To change a lower level hotkey:

1. Connect a keyboard and monitor to the lower level switch
2. Hit Shift, Shift to open the OSD Menu
3. Hit F2 to get to the General Settings Menu, and highlight the Hotkey option
4. Press the Space Bar to toggle through the various hotkeys
5. When you've selected the desired hotkey, simply exit the OSD Menu. Hitting the Enter key is not required to activate your selection
6. Follow the instructions on page 14 to update the Port Settings menu in the top-level KVMs OSD to reflect the lower-level KVMs new hotkey

Note: When Password Security is activated, all port selection hotkey commands are deactivated, leaving the OSD Main Menu as the only way to switch to another port.

Auto Skip

The Auto Skip option allows you to choose whether you want Inactive ports to be selectable or not. If the Auto Skip option is turned on, Inactive ports will not be accessible via the OSD Main Menu or the Port Selection Hotkey Commands. If the Auto Skip option is turned on, you will be able to access Inactive ports using either the OSD Main Menu or the Port Selection Hotkey Commands.

To change the Auto Skip setting:

1. Highlight the Auto Skip option in the OSD General Settings Menu
2. Press the space bar to turn the Auto Skip option On/Off

Serial Port

The Serial port is used for the Firmware upgrade. Serial port On means the program can be used.

To change the Serial port setting:

1. Highlight the Serial Port option in the OSD General Settings Menu.
2. Press the space bar to turn the Serial Port option On/Off.

Changing the Keyboard Language

The keyboard is preset to US English. It can be changed to French (FR) or German (DE) by doing the following:

1. Highlight the Keyboard language option in the OSD General Settings Menu
2. Press the space bar to toggle through the various options.
3. When you've selected the desired language, simply exit the OSD. Hitting the Enter key is not required to activate your selection

Operation *(continued)*

Editing the Switch Name

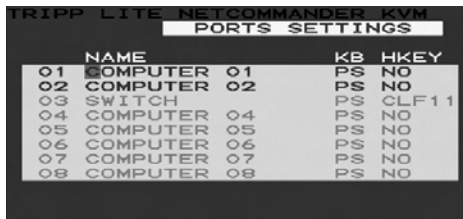
The KVM Switch Name appears at the bottom of the OSD General Settings Menu, and can be changed to whatever you want. When cascading, it is necessary to access the cascaded KVMs OSD using it's own hotkey. Giving cascaded KVMs OSDs unique names makes it easier when accessing them to verify which switches OSD you are accessing. To change this name simply type over the existing letters. You can create a name up to 18 characters in length, with spaces counting as characters.

Reset OSD General Settings Menu to Defaults (F7)

When in the OSD General Settings Menu, you can reset all of the options to the original default settings, erasing any changes you have made. If you have changed the Security Passwords, they will be reset to their defaults as well.

Ports Settings

In the OSD Settings Menu (Access by pressing F2 in the OSD Main Menu), highlight the Ports option and press enter.



	NAME		KB	HKEY
01	COMPUTER	01	PS	NO
02	COMPUTER	02	PS	NO
03	SWITCH	03	PS	CLF11
04	COMPUTER	04	PS	NO
05	COMPUTER	05	PS	NO
06	COMPUTER	06	PS	NO
07	COMPUTER	07	PS	NO
08	COMPUTER	08	PS	NO

Figure 11 Ports Settings window

Editing the Computer Name

By default each port is named 'Computer 01, Computer 02, etc.' To personalize these names for each computer, highlight the desired port and type directly over the text that's already there. Each name has a maximum of 15 characters, each space counting as one character. To delete a character, simply highlight it and press the space bar.

Editing the Keyboard (KB) Column

The KVM operates with Windows, Linux, HP UX, Alpha UNIX, SGI, DOS, Novell, MAC, USB or Open VMS. By default the Keyboard Mode is set to PS for Intel Based computers. For a different keyboard mode, highlight the desired port and press the Tab key to highlight the KB column. Press the space bar to toggle through the following options:

U1 - HP UX

U2 - Alpha UNIX, SGI or Open VMS

U3 - IBM AIX

Adding/Changing a Hotkey (HKEY) for Cascaded KVM Switches

When a KVM Switch is cascaded to the Console KVM, it is necessary to select a hotkey in this field. This is required so the top-level KVM knows that when the Cascaded KVM Port is selected and you hit the selected OSD Hotkey Command, it is supposed to pull up the OSD Main Menu for that KVM switch. If a Hotkey is not selected for a cascaded KVM, you will not be able to access the cascaded KVMs OSD. For connected computers/servers this field should have "NO" selected.

Operation *(continued)*

To add/change a hotkey:

1. Highlight the desired port and press the Tab key until the HKEY column is highlighted
2. Press the space bar to toggle through the various choices
3. When you've selected the desired hotkey, simply exit the OSD. Hitting the Enter key is not required to activate your selection

Time Settings

In the Settings window navigate to the Time line and press **[Enter]**. The Time settings window appears (see Figure 12).



	NAME	SCN	LBL	T/O
01	COMPUTER 01	030	030	030
02	COMPUTER 02	030	030	030
03	SWITCH	030	030	030
04	COMPUTER 04	030	030	030
05	COMPUTER 05	030	030	030
06	COMPUTER 06	030	030	030
07	COMPUTER 07	030	030	030
08	COMPUTER 08	030	030	030

Figure 12 Time settings window

SCN - Sets the amount of time spent on the selected computer when Auto Scanning.

LBL - Sets the amount of time the OSD label that shows which computer is currently accessed is displayed.

T/O - When password protection is activated, you can automatically disable the Keyboard, Mouse and Monitor after a set amount of inactive time, requiring a password to be entered to regain access to the KVM switch. When Timed Out, press the 'Shift, Shift' OSD Hotkey Command to pull up the password prompt, which will take you back to the OSD Main Menu once you enter your password.

To set the above periods:

1. On the desired line press Tab to jump to the desired column.
2. Place the cursor over one of the 3 digits and type a new number. Enter a leading zero where necessary. For example, type 030 for 30 seconds.

Enter 999 in the **LBL** column to have the label displayed continuously. Enter 000 if you do not want the label to appear.

Enter 999 in the **T/O** column to disable the Timeout function.

Enter 000 if you want the Timeout function to work immediately.*

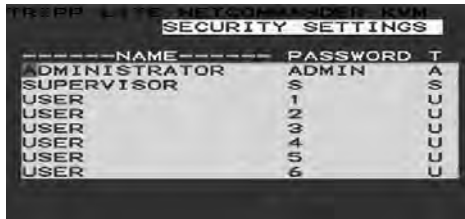
* This will literally cause the Timeout function to begin immediately when the computer port is selected. This will essentially freeze access to the KVM, not allowing the user enough time to hit the OSD Hotkey Command to pull up the password prompt. It is recommended that you always keep the T/O set to 5 seconds or higher. If you set the T/O at 000 and get locked out of the KVM, turn the Console KVM Off and then back On.

This will reset the KVM, leaving a blank screen on the monitor. Hit the 'Shift, Shift' OSD Hotkey Command to pull up the password prompt. Once you type in your password, you will again have access to the OSD Main Menu.

Enter 999 in the **SCN** column to display the screen for 999 seconds.

Enter 000 to skip the computer screen.

Security



NAME	PASSWORD	T
ADMINISTRATOR	ADMIN	A
SUPERVISOR	S	S
USER	1	U
USER	2	U
USER	3	U
USER	4	U
USER	5	U
USER	6	U

Figure 13 The Security settings window

The OSD offers an advanced password security system made up of three different security levels, each having its own access rights.

Administrator (Status A): The Administrator has access to all features of the KVM, allowing them to Set/Modify all Passwords and Security Profiles, gain full access to any computer connected to the KVM and usage of all OSD features.

Supervisor (Status S): The supervisor has full access to all computers connected to the KVM and can use the Auto Scan (F4), Tuning (F5) and Confirmation Label Moving (F6) functions in the OSD. The Supervisor can not change any of the OSD Settings or Security Settings.

User (Status U): There can be up to 6 Users set up by the Administrator for access to the KVM. Users are able to use the OSD Main Menu to access a connected computer and can use the Auto Scan (F4), Tuning (F5) and Confirmation Label Moving (F6) functions in the OSD. Users do not have the ability to use any other OSD features. The Administrator will choose which computers they have access to and which they do not. There are 3 types of access the Administrator can give a User:

Y - This gives the user full access to a connected computer.

V - This gives the user view only access to a computer. Keyboard and mouse functionality are not available.

N - This means a user is not allowed to access a connected computer. If the User attempts to access a computer they are not allowed to, a blank screen will appear.

Security Settings

When Password Security is set to on, only the administrator can change the Security Settings of the KVM switch.

Security Settings

1. Highlight the Security option in the OSD Settings Menu and hit the Enter key.
2. To change the name of the Administrator, Supervisor or User, highlight the desired name and simply type over what's already there. Any letters left over can be deleted by pressing the space bar.
3. To change the password, hit the Tab key to highlight the Password column of the desired person and type in the new password.
4. The last column (T) refers to the level of access; Administrator (A), Supervisor (S) or User (U). You can change these if you want, but there can only be 1 Administrator, 1 Supervisor and 6 Users.

Operation *(continued)*

User Settings

1. Highlight the Users option in the OSD Settings Menu and hit the Enter key.
2. The Users will be represented in the 6 columns on the right side of the screen. To change the access for a given computer, highlight the desired computer and hit the Tab key until the desired user is highlighted.
3. Press the space bar to toggle between the 3 access options (Y, V or N). See page 16 for details on these 3 options.

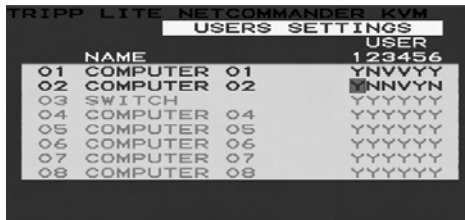


Figure 14 The Users Settings Window

OSD HELP Window (F1)

To access the HELP window press [F1]. The HELP window is displayed (see Figure 15).

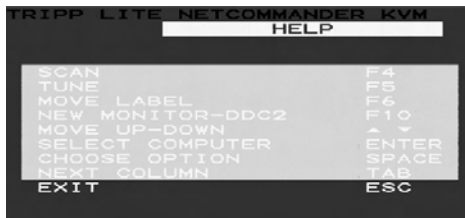


Figure 15 The HELP window

Please note! All the functions in the Help window are performed from the OSD Main Menu. The Help window only serves as a reminder of the OSD function keys.

Scanning Computers (F4)

The amount of time spent on a computer when Auto Scanning is adjustable. See page 15 for details.

To activate scanning:

1. Press the [Shift] key twice to activate the OSD.
2. Press the [F4] key.

Each active computer will be displayed in sequence. A Scan label appears in the top left corner.

To deactivate scanning:

- Press [F4].

Operation *(continued)*

Tuning (F5)

You can tune the image of any remote computer screen.

To adjust the screen image:

1. In the OSD Main Menu highlight the computer you want to adjust.
2. Press the **[F5]** key. The screen image of the selected computer is displayed, along with the Image Tuning label.
3. Adjust the image by using the **Right** and **Left Arrow** keys.
4. When the image is satisfactory, press **[Esc]**.

Note! Distance affects picture quality. The further away a remote computer is from the KVM, the lower the image quality and the more tuning needed. Therefore put any higher resolution computers closer to the KVM.

Moving the Label (F6)

You can position the OSD label anywhere on the screen.

To position the label from the Main window:

1. Move to the desired computer using the **Up** and **Down Arrow** keys.
2. Press the **[F6]** key. The selected screen image and Identification label are displayed.
3. Use the arrow keys to move the label to the desired position.
4. Press **[Esc]** to save and exit.

Firmware Upgrade

Firmware Upgrade System Requirements:

- Windows 2000 or higher operating system
- Pentium 166 or higher with 16MB RAM and 10MB free hard drive space
- Available DB9 serial port

Upgrading the KVM Firmware

The NetCommander KVM Firmware Upgrade Utility allows you to upgrade both the KVM and Server Interface Units (SIUs). Each KVM in a cascade installation must be upgraded individually. When done upgrading the first KVM in the installation, perform the upgrade procedure on each subsequent KVM. To upgrade your firmware, follow the steps below:

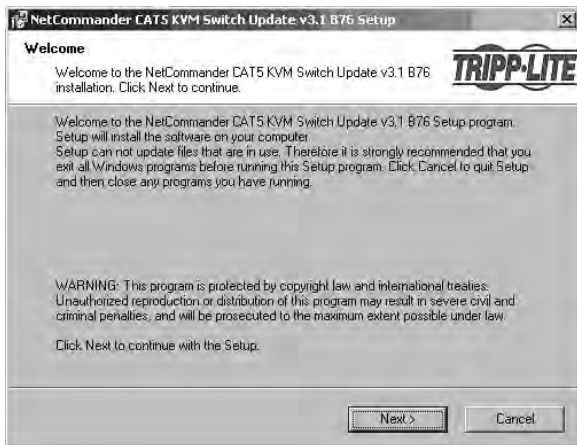
1. Make sure that the *Serial Port* setting in the OSD *General Settings* menu is set to **On**. This makes the serial port on the back of the KVM switch available for use in a firmware upgrade.
2. Using the included RJ11 to DB9 firmware upgrade cable, connect the upgrade port on the back of the unit to an available serial port on a computer that is not connected to the KVM.

Firmware Upgrade *(continued)*

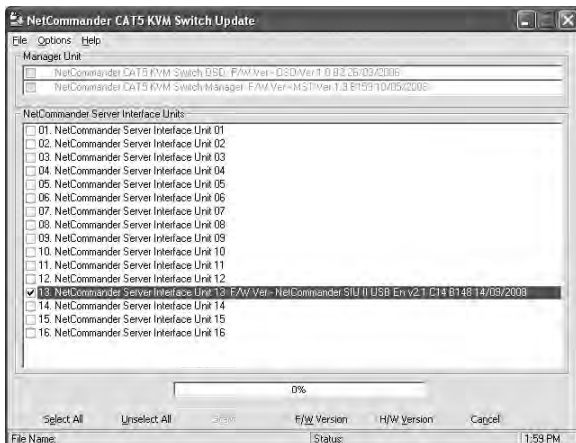
3. On the upgrade computer (the computer connected to the KVM via the firmware upgrade cable), go to the Tripp Lite website and download the NetCommander Firmware Upgrade Utility .exe file, Firmware Upgrade .tftp file and Firmware Upgrade information doc.

Note: The firmware upgrade information document will list the latest firmware for all Tripp Lite NetCommander KVM switches and SIUs, which you will need to reference when determining if your device has the latest firmware. The .tftp firmware upgrade file contains firmware for both the KVM and SIUs.

4. Run the NetCommander Firmware Upgrade Utility .exe file, and follow the instructions to install the utility on the upgrade computer.

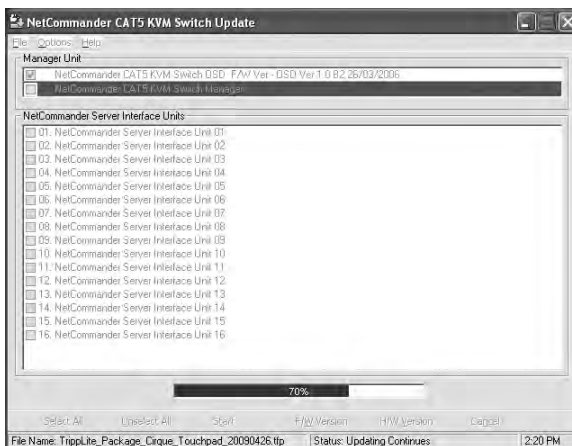


1. Once installed on the upgrade computer, open the NetCommander Firmware Upgrade Utility.



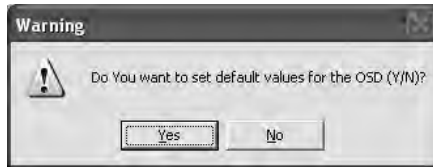
Firmware Upgrade *(continued)*

1. Check the firmware versions of the KVM (Switch Manager), KVM OSD (Switch OSD) and SIUs by clicking on the boxes next to them and pressing the *F/W Version* button.
Note: To select a device, you must first unselect any boxes that have already been checked. To select or unselect all SIUs at once, simply click on the Select All or Unselect All button at the bottom of the upgrade utility.
2. Compare the firmware versions of your devices to that of the firmware version listed in the document from the Tripp Lite website. If your version is the same or newer than that found on the Tripp Lite website, you do not need to upgrade your firmware. If your version is older, proceed to the next step.
3. Click on the box next to the KVM OSD (Switch OSD), KVM (Switch Manager) or SIU(s).
4. In the *File* menu at the top of the upgrade utility screen, select the *Open* option and navigate to the .tfp firmware upgrade file you downloaded from the Tripp Lite website.
5. In the *Options* menu at the top of the upgrade utility screen, select the *Com Port* option, and choose the Com Port of the upgrade computer that the firmware upgrade cable is connected to.
6. Click on the *Start* button at the bottom of the upgrade utility to begin the upgrade. A prompt will appear to warn you that the KVM screen will be dark during the upgrade process. Click on the *OK* button to proceed with the upgrade.



Firmware Upgrade *(continued)*

7. Towards the end of the firmware upgrade, a prompt will appear asking you if you want to set the OSD to its default settings. If yes, click the *Yes* button. If no, click the *No* button. The upgrade will continue.



8. Upon completion, the new firmware version will be displayed next to the upgraded unit in the upgrade utility, and the KVM screen will no longer be blacked out.

Note: A firmware upgrade generates one log file per session that displays a chronological list of actions. You can read the log file in any ASCII text editor. The log file is located in the Windows directory.

KVM Switch/SIU Reset

In the event the KVM switch or SIU(s) lock up during the firmware upgrade process, or the console's mouse and keyboard are not working, you can reset the KVM or SIU(s) using the upgrade utility. To perform a reset, follow the steps:

Note: This will not affect any of the settings on the KVM switch or SIU(s).

1. Open the upgrade utility and check the checkbox next to the device you want to reset.
2. In the *Options* menu at the top of the screen, select the *Advanced/Reset* option. This will perform the reset of the selected device.

Troubleshooting

Note: Disconnect device from AC mains before service operation!

When using Firmware Update software you may at times get a Communication Error message.

If a Communication Error message does appear during the update procedure, do the following:

1. Ensure that the RS232 Serial cable's RS232 connector is connected to the Switch's Communication port.
2. Ensure that the RS232 Serial cable's DB9F connector is connected to the DB9M Serial port on the CPU's rear panel.
3. Restart the download process.

Electricity failure

If the electricity fails during an update to the KVM firmware, do the following:

1. If the electricity fails while the switch firmware is updating, a Communication Error message will appear. Simply resume the firmware update by opening the folder that contains the firmware update file and continue from there.
2. If the electricity fails while the Server Interface Unit firmware is updating, a **Not Responding** or **Upgrade Error** message will appear. Restart the upgrade from the beginning.

Monitor Screen Failure

In the event that one of the connected computers does not display an image on the console monitor (your monitor may display an error message saying 'Unable to Display Video Mode'), you may need to update the DDC Information from the console monitor. To do this, follow these steps:

1. Remove the SIU VGA Connectors from all connected computers. Leave the USB or PS/2 connectors attached
2. Open the OSD Main Menu and press the F10 key. The OSD will flash the message 'Please Wait.' When that message stops, the update has taken place
3. Reconnect the SIU VGA Connectors of all the attached computers. You should now be able to display video from all computers

USB/SUN Combo Keys

The connected PS/2 keyboard does not have a special SUN keypad to perform special functions in the SUN Operating System environment. When a B078-101-USB (SIU) is connected to a SUN computer, the SIU emulates these SUN keys using a set of key combinations called Combo Keys. See the table below.

SUN key	Combo key	SUN key	Combo key
Stop	Left Ctrl + Alt + F1	Compose	Application key or
Props	Left Ctrl + Alt + F3		Left Ctrl + Alt + Keypad *
Front	Left Ctrl + Alt + F5	Crescent	Scroll Lock
Open	Left Ctrl + Alt + F7	Volume Up	Left Ctrl + Alt + Keypad -
Find	Left Ctrl + Alt + F9	Volume Down	Left Ctrl + Alt + Keypad +
Again	Left Ctrl + Alt + F2	Mute	Left Ctrl + Alt + F12
Undo	Left Ctrl + Alt + F4	Sun Left ◊ key	Left Windows key
Copy	Left Ctrl + Alt + F6	Sun Right ◊ key	Right Windows key
Paste	Left Ctrl + Alt + F8	Alt-Graph	Right Alt or Alt Gr
Cut	Left Ctrl + Alt + F10	Stop A	Left Ctrl + Alt + 1
Help	Left Ctrl + Alt + F11		

Specifications

Operating Systems	DOS, Windows, LINUX, UNIX, Mac and all other major operating systems	
Optional External Mouse	PS/2, Wheel mouse, Intellimouse, 5-button mouse	
Resolution	1280 x 1024	
Transmission distance	Up to 100 ft.	
NetCommander KVM Switch	Model B070-016-19 or B070-008-19	
Dimensions	28" x 19" x 1.7" (L x W x H)	
Weight	36 lbs.	
Power supply	Internal switching 100-240 VAC 50 / 60 Hz	
Connections		
System	RJ45	
Serial	RJ11	
Monitor	HD15	
Keyboard	MiniDin6	
Mouse	MiniDin6	
Operating / Recommended ambient temperature	32°F to 104°F	
Storage temperature	-40°F to 158°F	
Humidity	80% non-condensing relative humidity	
NetCommander Server Interface Units	Model B078-101-PS2	Model B078-101-USB
Connections		
VGA	HD15	HD15
Keyboard/Mouse	MiniDin6	USB
System	RJ45	RJ45
Power	From Keyboard port	From USB port
Cascadeable KVM Switches	B072-016-1 or B072-008-1	

FCC Radio/TV Interference Notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. The user must use shielded cables and connectors with this product. Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1-Year Limited Warranty

TRIPP LITE warrants its products to be free from defects in materials and workmanship for a period of one (1) year from the date of initial purchase. TRIPP LITE's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from TRIPP LITE or an authorized TRIPP LITE service center. Products must be returned to TRIPP LITE or an authorized TRIPP LITE service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment, which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

EXCEPT AS PROVIDED HEREIN, TRIPP LITE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

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Visit www.tripplite.com/warranty today to register the warranty for your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)

Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

Tripp Lite follows a policy of continuous improvement. Product specifications are subject to change without notice.



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