

# Quick Start Guide

## NetDirector® 8/16-Port 1U Rack-Mount 4K HDMI/USB 3.0 KVM Switch with Audio and Peripheral Sharing

Models: B024-H4U08, B024-H4U16

A complete Owner's Manual is available on Tripp Lite's website: [triplite.com](http://triplite.com).

### WARRANTY REGISTRATION

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## Product Features

- Control up to eight (B024-H4U08) or 16 (B024-H4U16) 4K HDMI computers and two USB 3.0 peripheral devices using one centralized monitor, keyboard and mouse.
- Cascade up to three levels with the B024-H4U08 (control up to 512 computers) or two levels with the B024-H4U16 (control up to 256 computers).
- Effortlessly switch between computers using either the front panel buttons, hotkeys or on-screen display (OSD).
- The KVM and USB focus can be switched independently of one another; for example, you can access one computer while simultaneously printing from another computer.
- Support HDMI video resolutions up to 4096 x 2160 @ 60 Hz.
- Console mouse emulation supports multi-functional mice and most mouse drivers.
- OSD Backup/Restore feature allows the administrator to back up the switch's configurations and user profile information.

## Package Includes

- B024-H4U08, B024-H4U16
- 4K HDMI/USB 3.0 Custom KVM Cable Kits (x2) – 6 ft.\*
- Firmware Upgrade Cable – 6 ft.
- External Power Supply with C13 to NEMA 5-15P Power Cord (Input: 100-240V, 50/60 Hz, 0.7A; Output: 5V 4A)
- North America Power Cord
- EU Power Cord
- UK Power Cord
- Foot Pad Set (4 pc.)
- Mounting Hardware
- Quick Start Guide

\* **Note:** The microphone connector on the cable kit will not be used because the B024-H4UXX supports speakers only.

## Optional Accessories

- P569-Series High Speed HDMI Cables
  - UR022-Series USB Reversible A/B Cables
  - P312-Series 3.5 mm Mini Stereo Audio Cables
  - P782-0XX-HA HDMI/USB/Audio Custom KVM Cable Kits\*
- \* P130-000 HDMI to DVI adapter sold separately.

## System Requirements

### Console

- 4K HDMI-compliant monitor
- USB Mouse/Keyboard
- Speakers (Optional)

### Computers

- Source with a 4K HDMI port
- USB Type-A port
- Speaker ports (Optional)

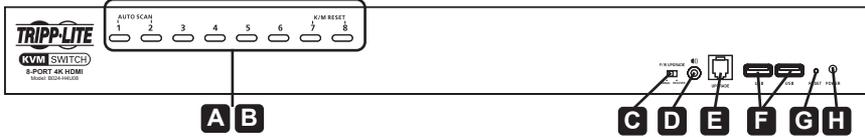
### Supported Operating Systems:

Operating System		Version
Windows		2000 and higher
Mac		OS 9.0 and higher
Linux	Kernal	2.6 and higher
	RedHat	9.0 and higher
	SuSE	10 / 11.1 and higher
	Debian	3.1 / 4.0
	Ubuntu	7.04 / 7.10
UNIX	AIX	4.3 and higher
	FreeBSD	5.5 and higher
	Sun	Solaris 8 and higher
Novell	Netware	6.0 and higher

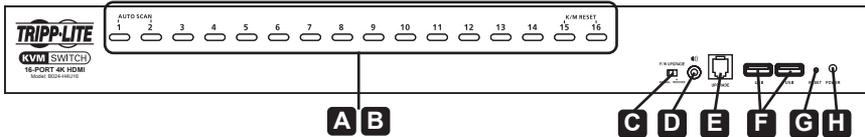
# Introduction

## Front Panel

### Model B024-H4U08



### Model B024-H4U16



Key	Component	Description
<b>A</b>	Port Selection Pushbuttons	<p>For manual port selection*:</p> <ul style="list-style-type: none"> <li>Press a port selection pushbutton for less than two seconds to bring the KVM, USB hub, and audio focus to the computer attached to its corresponding port.</li> <li>Press a pushbutton for longer than two seconds to bring the KVM and audio selection to the computer attached to its corresponding port.</li> <li>Press pushbuttons 1 and 2 simultaneously for 2 seconds to start Auto Scan Mode (for details, see <b>Owner's Manual section 11.4 Auto Scan Mode</b>).</li> <li>Press pushbuttons 7 and 8 simultaneously for 2 seconds to perform a keyboard and mouse reset (for details, see <b>Owner's Manual section 11.6 Keyboard/Mouse Reset</b>).</li> <li>For independent switching, enable mouse emulation (see <b>Owner's Manual section 11.11.3 Mouse Emulation Control</b>).</li> </ul> <p>* For more details, see <b>Owner's Manual section 9.2 Port Selection</b>.</p>

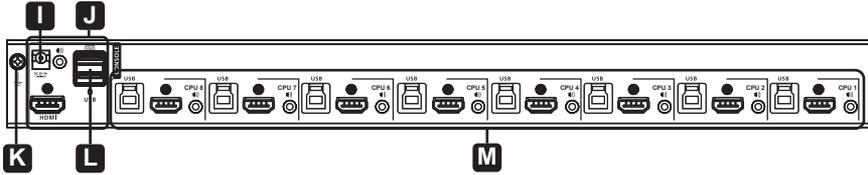
# Introduction

Key	Component	Description
<b>B</b>	Port LEDs	<p>The Port LEDs are built into the Port Selection Switches. The KVM Port LEDs are on the left. The USB LEDs are on the right.</p> <p><b>KVM</b></p> <ul style="list-style-type: none"> <li>• Illuminates dim orange to indicate the computer attached to the corresponding port is up and running (On-Line).</li> <li>• Flashes to indicate Firmware Upgrade mode is in effect.</li> <li>• Illuminates bright orange to indicate the computer connected to the corresponding port has the KVM focus (Selected).</li> <li>• Flashes to indicate the computer connected to the corresponding port is being accessed under Auto Scan mode.</li> </ul> <p><b>USB</b></p> <ul style="list-style-type: none"> <li>• Lights green to indicate the computer connected to the corresponding port is the one with access to the USB peripherals.</li> </ul>
<b>C</b>	Firmware Upgrade Recovery Switch	<p>During normal operation and while performing a firmware upgrade, the switch should be in the NORMAL position. If a firmware upgrade operation does not complete successfully, this switch is used to perform a firmware upgrade recovery (for details, see <b>Owner's Manual section 13.6 Firmware Upgrade Recovery</b>).</p>
<b>D</b>	Audio Port	<p>Connect speakers to this port (optional). The speakers plugged into this connector have priority over those plugged into the rear panel.</p>
<b>E</b>	Firmware Upgrade Port	<p>This port is used to upgrade the firmware on the KVM switch. Connect the included Firmware Upgrade Cable to this port.</p>
<b>F</b>	USB 3.1 Gen1 Hub	<p>USB 3.0 peripherals (printers, scanners, etc.) can be connected to the port (a user-supplied power adapter may be required).</p> <p><b>Note:</b> <i>The USB 3.0 hub cannot be accessed through the switch by computers on the second or third level or a cascaded installation.</i></p>
<b>G</b>	Reset Switch	<p>Pressing this switch performs a system reset. When the system is reset, the unit beeps and the port LEDs flash in succession until the reset is complete. After the reset is complete, you can log in again.</p>
<b>H</b>	Power LED	<p>Illuminates to indicate the switch is powered and ready to operate.</p>

# Introduction

## Rear Panel

(Model B024-H4U08 shown)



Key	Component	Description
<b>I</b>	Power Jack	The power adapter cable connects here.
<b>J</b>	Console Port Selection	The cables from the console HDMI monitor, USB keyboard, USB mouse and speakers connect here. Each connector is marked with an appropriate icon to indicate the connector type.
<b>K</b>	Grounding Terminal	Connect a grounding wire to ground the switch (optional).
<b>L</b>	USB 3.1 Gen1 Hub	USB 3.0 peripherals (printers, scanners, etc.) can be connected to the port. <b>Note:</b> The USB 3.0 hub cannot be accessed through the switch by computers on the second or third level of a cascaded installation.
<b>M</b>	KVM Port Selection	Cables that link the switch to the computers connect here. Each KVM port selection includes a speaker jack, a USB Type-B connector and an HDMI connector with screw lock.

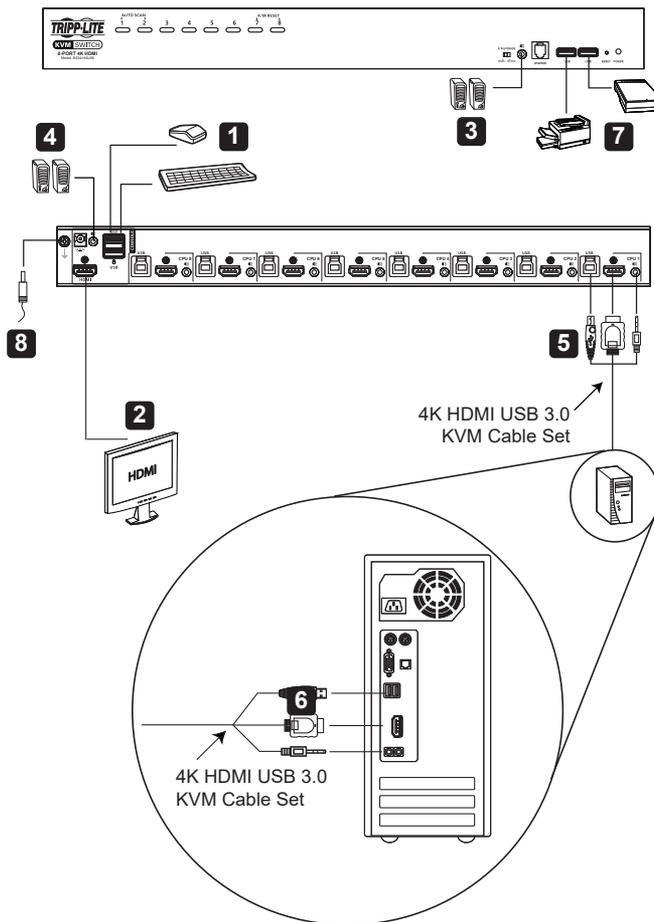
# Installation

**Note:** Before beginning installation:

- Make sure power to all devices that you will be connecting has been turned off.
- It is recommended to properly ground the KVM switch to prevent damage to your installation from surges or static electricity.

## Single-Level Installation

To set up single-level installation, refer to the following installation diagram (the numbers in the diagram correspond to the steps below) and perform the following:



# Installation

- 1** Plug a USB keyboard and a USB mouse into the USB console ports located on the unit's rear panel.
- 2** Connect a 4K HDMI monitor into the 4K HDMI console port and power it on.
- 3** Plug primary speakers into the speaker jack located on the unit's front panel. These speakers have priority over those plugged into the rear panel.
- 4** Plug secondary speakers into the audio port located on the unit's rear panel (optional).
- 5** Using Tripp Lite's P782-0XX-HA HDMI/USB/Audio KVM cable kit or individual 4K HDMI, USB 3.0 and audio cables, plug the 4K HDMI connector into any available 4K HDMI port, then plug the accompanying USB 3.0 and audio cables into their corresponding ports.
- 6** At the other end of the cable, plug the USB 3.0, video and speaker cables into their respective ports on the computer.
- 7** Plug USB 3.0 peripherals into the Type-A connectors in the USB 3.1 Gen1 hub section.
- 8** Plug the power adapter that came with the switch into an AC power source, then plug the power adapter cable into the switch's power jack.
- 9** Power on connected computers.

# Warranty & Product Registration

## 2-Year Limited Warranty

TRIPP LITE warrants its products to be free from defects in materials and workmanship for a period of two (2) years 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.

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## Product Registration

Visit [tripplite.com/warranty](http://tripplite.com/warranty) today to register 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.

# Regulatory Compliance

## **FCC Notice, Class A**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 equipment. Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

## **Regulatory Compliance Identification Numbers**

For the purpose of regulatory compliance certifications and identification, your Tripp Lite product has been assigned a unique series number. The series number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to the series number. The series number should not be confused with the marketing name or model number of the product.

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Photos and illustrations may differ slightly from actual products.





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