

## TRENDnet TK-1603R

# TRENDnet 16-Port Rack Mount USB KVM Switch User Manual

Model: TK-1603R

Brand: TRENDnet

## INTRODUCTION

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The TRENDnet 16-Port Rackmount VGA KVM Switch, model TK-1603R, is designed to allow users to manage up to 16 computers or servers using a single set of keyboard, monitor, and mouse. This device supports both USB and PS/2 interfaces for the console connection and USB for the PC side. It is compatible with various operating systems including Windows, Linux, and Mac. The TK-1603R offers flexible management options, allowing users to switch between connected PCs via hot-key commands or front panel push buttons. Its hot-pluggable design minimizes downtime when adding or removing PCs.

## WHAT'S IN THE BOX

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Upon unpacking your TRENDnet TK-1603R KVM Switch, please verify that all the following items are included:

- TK-1603R 16-Port Rackmount KVM Switch Unit
- Quick Installation Guide
- Power adapter (9V DC, 1A)
- Rackmount kit

## SETUP

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Follow these steps to set up your KVM switch:

### 1. Mounting the KVM Switch:

The TK-1603R is designed for standard 19-inch (1U) rack mounting. Use the included rackmount kit to secure the device in your server rack. Ensure adequate ventilation around the unit.



Image: Front view of the TK-1603R KVM Switch, showing the front panel with port selection buttons and LED indicators. This view highlights its rack-mountable design.

## 2. Connecting Console Devices:

Connect your keyboard, monitor, and mouse to the console ports on the rear of the KVM switch. The console supports both USB and PS/2 interfaces for keyboard and mouse, and VGA for the monitor.



Image: Rear panel of the TK-1603R KVM Switch, displaying the console ports (USB, PS/2, VGA) on the left and 16 VGA/USB PC connection ports on the right.

## 3. Connecting Computers:

Connect each computer's VGA and USB ports to the corresponding PC ports on the KVM switch. The KVM switch has 16 dedicated ports for connecting up to 16 computers. Compatible KVM cables (e.g., TK-CU06, TK-CU10, TK-CU15) are sold separately.

# KVM

## Connection Interfaces

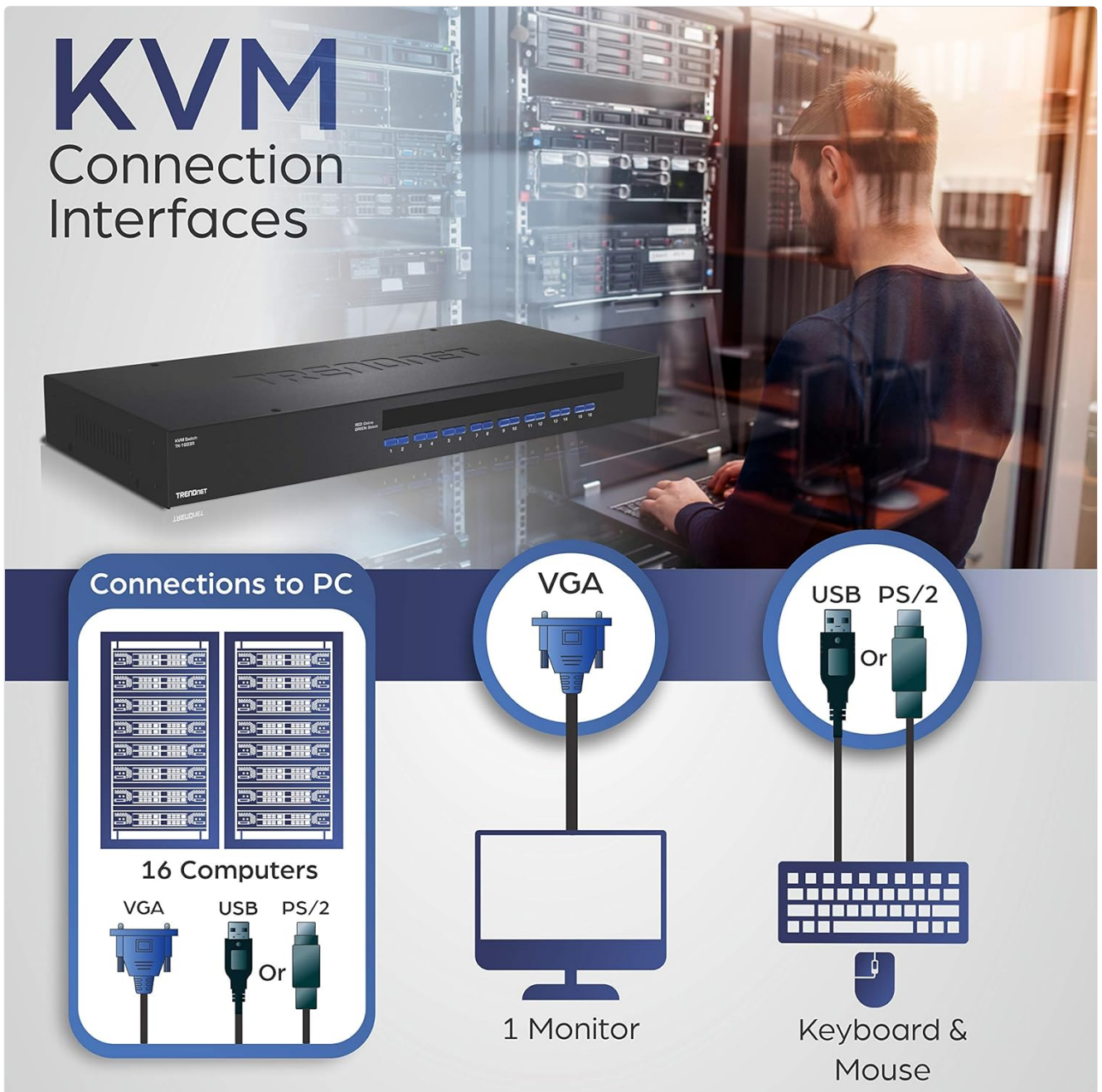


Image: A diagram showing how to connect up to 16 computers to the KVM switch using VGA and USB/PS2 cables, and how a single monitor, keyboard, and mouse connect to the console side.

#### 4. Power Connection:

Connect the included 9V DC, 1A power adapter to the KVM switch's power input and then to a power outlet. The unit will power on automatically.

## OPERATING THE KVM SWITCH

The TK-1603R offers two primary methods for switching between connected computers:

### 1. Front Panel Push Buttons

Directly press the numbered buttons on the front panel of the KVM switch to select the corresponding computer. The LED indicators will show which computer is currently active (Green for selected, Red for online).

### 2. Hot-Key Switching

Use specific keyboard hot-key combinations to switch between computers. The default hot-key sequence is typically **[Scroll Lock] + [Scroll Lock] + [Port Number]**. For example, to switch to computer 5, press Scroll Lock twice, then press '5'. Refer to the Quick Installation Guide for a complete list of hot-key commands and advanced functions.

## Auto-Scan Function

The KVM switch features an auto-scan mode that automatically cycles through all connected computers, displaying each for a set duration. This is useful for monitoring multiple systems. Activate and deactivate auto-scan using specific hot-key commands (refer to the Quick Installation Guide).

## Audible Feedback

The device provides an audible beep to confirm successful port switching. This feature can usually be enabled or disabled via hot-key commands.

## MAINTENANCE

To ensure optimal performance and longevity of your TRENDnet TK-1603R KVM Switch, consider the following maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using liquid cleaners or aerosols, which may damage the device.
- **Ventilation:** Ensure that the ventilation openings on the KVM switch are not blocked. Proper airflow is crucial to prevent overheating.
- **Cable Management:** Keep KVM cables organized and free from kinks or excessive bends to prevent signal degradation.
- **Firmware Updates:** Periodically check the TRENDnet official website for any available firmware updates for the TK-1603R. Firmware updates can improve performance, add features, or resolve issues.

## TROUBLESHOOTING

If you encounter issues with your KVM switch, refer to the following common troubleshooting tips:

Problem	Possible Solution
No video display on monitor.	<ul style="list-style-type: none"><li>◦ Check all VGA cable connections between the KVM switch, monitor, and computers.</li><li>◦ Ensure the KVM switch is powered on and the correct port is selected.</li><li>◦ Verify the monitor is powered on and set to the correct input.</li><li>◦ Try connecting the monitor directly to the computer to rule out computer video issues.</li></ul>
Keyboard or mouse not responding.	<ul style="list-style-type: none"><li>◦ Ensure keyboard and mouse are connected to the correct console ports on the KVM switch.</li><li>◦ Try reconnecting the keyboard and mouse.</li><li>◦ If using PS/2 devices, ensure they are connected before powering on the KVM switch.</li><li>◦ Test the keyboard and mouse by connecting them directly to a computer.</li></ul>
Hot-key switching not working.	<ul style="list-style-type: none"><li>◦ Verify the hot-key sequence is correct (e.g., Scroll Lock + Scroll Lock + Port Number).</li><li>◦ Ensure the keyboard is fully recognized by the KVM switch.</li><li>◦ Some keyboards with special functions may interfere; try a standard keyboard.</li></ul>

Problem	Possible Solution
Poor video quality or flickering.	<ul style="list-style-type: none"><li>◦ Check the quality and length of your VGA cables. Shorter, higher-quality cables are recommended for higher resolutions.</li><li>◦ Ensure the video resolution on the computer is supported by the KVM switch (up to 2048 x 1536 VGA resolution).</li><li>◦ Check for any electromagnetic interference from other devices.</li></ul>

## SPECIFICATIONS

Feature	Detail
Model	TK-1603R
Brand	TRENDnet
PC Ports	16 x VGA HDB 15-pin (female)
Console Ports (Mouse)	1 x USB (Type A) / PS/2 (6-pin mini-DIN)
Console Ports (Keyboard)	1 x USB (Type A) / PS/2 (6-pin mini-DIN)
Console Ports (Monitor)	1 x VGA HDB 15-pin (female)
Supported Operating Systems	Windows, Linux, Mac OS, Unix
Max Video Resolution	2048 x 1536 VGA
Switching Methods	Front Panel Push Button, Hot-Key
Rack Mountable	Standard 19" (1U)
Power Adapter	9V DC, 1A
Item Dimensions (L x W x H)	11.8 x 17.75 x 3 inches
Item Weight	4.5 pounds
Firmware	Upgradeable via PC port
Compliance	NDAA and TAA Compliant (U.S. and Canada Only)




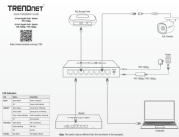


## WARRANTY AND SUPPORT

TRENDnet stands by the quality of its products. The TK-1603R 16-Port Rackmount KVM Switch is backed by a **2-year TRENDnet Manufacturer Protection**. For detailed warranty terms and conditions, please refer to the official TRENDnet website or the documentation included with your product.

For technical support, product registration, or to download the latest drivers and firmware, please visit the official TRENDnet support page. You can also find additional resources and FAQs there.

**Important Note:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

## Related Documents - TK-1603R

	<p><a href="#">TRENDnet TK-204K/TK-404KR 2/4-Port DVI-KVM Switch User's Guide</a></p> <p>Comprehensive user's guide for the TRENDnet TK-204K and TK-404KR 2/4-port DVI-KVM switches with audio. Learn about installation, operation, specifications, and troubleshooting.</p>
	<p><a href="#">TRENDnet TK-209K 2-Port USB KVM Switch Kit with Audio - Product Overview and Specifications</a></p> <p>Detailed overview of the TRENDnet TK-209K, a 2-port USB KVM switch kit with audio support. Features, technical specifications, and connectivity for managing multiple PCs with a single console.</p>
	<p><a href="#">TRENDnet TEG-160WS 16-Port Gigabit Smart Switch Quick Installation Guide</a></p> <p>This guide provides instructions for installing and configuring the TRENDnet TEG-160WS 16-port 10/100/1000Mbps Copper Gigabit Smart Switch. It includes package contents, system requirements, hardware installation, verification, configuration steps, and troubleshooting.</p>
	<p><a href="#">TRENDnet 5/8-Port Gigabit PoE+ Switch Quick Installation Guide</a></p> <p>Quick installation guide for TRENDnet 5-Port Gigabit PoE+ Switch (TPE-TG50g) and 8-Port Gigabit PoE+ Switch (TPE-TG80g / TPE-TG82g), including setup diagram, LED indicators, and compliance information.</p>
	<p><a href="#">TRENDnet TU-S9E Serial to Ethernet Converter Setup Guide</a></p> <p>A comprehensive setup guide for the TRENDnet TU-S9E Serial to Ethernet Converter, detailing network connection, software installation, and virtual COM port configuration for seamless serial device communication.</p>
	<p><a href="#">TRENDnet TU2-700 7-Port USB 2.0 Hub Quick Installation Guide</a></p> <p>This guide provides instructions for installing and verifying the TRENDnet TU2-700 7-port USB 2.0 Hub. It includes package contents, system requirements, hardware setup, troubleshooting, and contact information.</p>