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› Tripp Lite B126-4X4 HDMI Over Cat5/Cat6 Matrix Splitter Switch Instruction Manual

TRIPP LITE B126-4X4

Tripp Lite B126-4X4 HDMI Over Cat5/Cat6 Matrix Splitter Switch

Model: B126-4X4

INTRODUCTION

The Tripp Lite B126-4X4 is an HDMI Over Cat5/Cat6 Matrix Splitter Switch designed to distribute four HDMI video sources to multiple displays over Cat5e/Cat6 cabling. This device allows for flexible routing, enabling any of the four HDMI inputs to be directed to any of the four Cat5e/Cat6 outputs, or for a single input to be simultaneously displayed on multiple outputs. It supports high-definition video resolutions and extends signals over significant distances when used with compatible receivers.

FEATURES

- Shares up to four HDMI video and audio sources between multiple displays.
- Extends 1080p (60Hz) signals up to 125 feet (38.1 meters) and 1080i (60Hz) signals up to 175 feet (53.34 meters) when used with Tripp Lite active remote receivers (e.g., B126-1A0).
- Extends 1080p (60Hz) signals up to 50 feet (15.24 meters) and 1080i (60Hz) signals up to 75 feet (22.86 meters) when used with Tripp Lite passive remote receivers (e.g., B126-1P0).
- Allows any HDMI input to be routed to any Cat5e/Cat6 output, or a single input to be routed to multiple outputs.
- Input/output switching via front panel pushbuttons, included IR remote control, or RS232 serial commands.
- Supports expansion of the display network by adding B126-110 remote repeater units.

PACKAGE CONTENTS



The B126-4X4 package includes the following items:

- B126-4X4 4 x 4 HDMI over Cat5/Cat6 Matrix Splitter Switch
- 3.5 mm to DB9 adapter cable (for serial control)
- IR extension cable, 5 ft.
- Remote control
- External Power Supply (Input: 100–240V, 50/60 Hz, 0.5A; Output: 5V, 3A, 4.5 ft.)
- Mounting hardware
- Owner's Manual (this document)

SETUP

Component Identification



Image: Rear panel connections of the B126-4X4 unit.

The rear panel of the B126-4X4 unit features the following connections:

- **RS-232 Port:** For serial control via a computer.
- **IR Port:** For connecting the IR extension cable to receive remote control signals.
- **HDMI Inputs (A, B, C, D):** Connect your HDMI source devices (e.g., DVR, cable box).
- **Cat5/Cat6 Outputs (1, 2, 3, 4):** Connect Cat5e/Cat6 cables to compatible HDMI over Cat5/Cat6 receivers.
- **DC 5V Power Input:** Connect the included external power supply.

Connection Procedure

1. Ensure all devices (HDMI sources, displays, and the B126-4X4) are powered off before making connections.
2. Connect your HDMI source devices (e.g., DVR, Blu-ray player) to the HDMI Input ports (A, B, C, D) on the B126-4X4 using HDMI cables.
3. Connect Cat5e or Cat6 cables from the Cat5/Cat6 Output ports (1, 2, 3, 4) on the B126-4X4 to the input ports of your compatible HDMI over Cat5/Cat6 receivers (e.g., Tripp Lite B126-1A0, B126-1P0). *Note: Use 24AWG, solid wire Cat5e/Cat6 cable for optimal performance and distance.*
4. Connect your displays (e.g., HDTVs, monitors) to the HDMI output ports of the receivers using HDMI cables.
5. If using the IR remote control, connect the IR extension cable to the IR port on the B126-4X4 and position the IR eye in a location where it can receive signals from the remote.
6. If using RS232 serial control, connect the 3.5mm to DB9 adapter cable to the RS-232 port on the B126-4X4 and to your control computer.
7. Connect the included external power supply to the DC 5V power input on the B126-4X4, then plug the power supply into a standard AC outlet.
8. Power on all connected devices, starting with the displays, then the receivers, and finally the HDMI source devices.

OPERATING INSTRUCTIONS

Switching Inputs and Outputs

The B126-4X4 allows you to route any of the four HDMI inputs to any of the four Cat5e/Cat6 outputs. This can be done using the front panel pushbuttons, the IR remote control, or via RS232 serial commands.

Front Panel Control

The front panel features buttons for selecting inputs and outputs. Refer to the labels on the unit for specific button functions. Typically, there are buttons to select an output and then assign an input to that output.

IR Remote Control

Use the included IR remote control to switch inputs and outputs. Point the remote towards the IR receiver on the B126-4X4 (or the IR extension cable eye). The remote typically has buttons corresponding to inputs (A, B, C, D) and outputs (1, 2, 3, 4) to facilitate switching.

RS232 Serial Control

For advanced control, the B126-4X4 can be controlled via RS232 serial commands. Connect a computer to the RS232 port using the provided adapter cable. Consult the detailed RS232 command set (usually found in the full owner's manual PDF) for specific commands to manage input/output routing.

MAINTENANCE

The Tripp Lite B126-4X4 is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the exterior of the unit. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure the unit has adequate ventilation. Do not block any ventilation openings.
- **Environment:** Operate the device within its specified temperature and humidity ranges. Avoid exposing the unit to excessive moisture, dust, or extreme temperatures.
- **Cable Management:** Periodically check all cable connections to ensure they are secure and free from damage.

TROUBLESHOOTING

If you encounter issues with your B126-4X4, refer to the following common troubleshooting steps:

- **No Video/Audio Output:**
 - Verify that the B126-4X4 and all connected devices (sources, receivers, displays) are powered on.
 - Check all HDMI and Cat5e/Cat6 cable connections for proper seating and integrity.
 - Ensure the correct input is selected for the desired output on the B126-4X4.
 - Confirm that the Cat5e/Cat6 cable length does not exceed the maximum recommended distance for your receiver type (active vs. passive).
 - Test with a different HDMI source or display to isolate the problem.
- **Poor Video Quality (Flickering, Distortion):**
 - Ensure you are using high-quality 24AWG solid wire Cat5e/Cat6 cables.
 - Reduce cable lengths if they are near the maximum limits.
 - Check for electromagnetic interference (EMI) from other electronic devices.
 - Verify that the resolution and refresh rate settings of your source and display are compatible with the extender system.
- **Remote Control Not Responding:**
 - Ensure the remote control batteries are fresh and correctly inserted.

- Verify that the IR extension cable is securely connected and its eye is positioned to receive signals from the remote.
- Ensure there are no obstructions between the remote and the IR eye.
- **Unit Not Powering On:**
 - Check that the power adapter is securely connected to the unit and a working AC outlet.
 - Verify the power outlet is functional by plugging in another device.
 - Ensure you are using the original Tripp Lite power adapter provided with the unit.

SPECIFICATIONS

Feature	Specification
Model Number	B126-4X4
Color	Black
Brand	TRIPP LITE
Connector Type	HDMI (Input), RJ45 (Output)
Compatible Devices	DVR, Cable Box, Blu-ray Players, Game Consoles, etc.
Cable Type (Output)	Cat5e/Cat6 (24AWG solid wire recommended)
Number of Ports	4 HDMI Inputs, 4 Cat5/Cat6 Outputs
Max Resolution (1080p/60Hz)	Up to 125 ft. (38.1 m) with active receiver; Up to 50 ft. (15.24 m) with passive receiver
Max Resolution (1080i/60Hz)	Up to 175 ft. (53.34 m) with active receiver; Up to 75 ft. (22.86 m) with passive receiver
Power Supply Input	100–240V, 50/60 Hz, 0.5A
Power Supply Output	5V, 3A
Item Weight	2.1 pounds (0.95 kg)
Control Methods	Front Panel Pushbuttons, IR Remote, RS232 Serial

WARRANTY

This Tripp Lite B126-4X4 HDMI Over Cat5/Cat6 Matrix Splitter Switch is covered by a**1-year limited warranty**. For specific terms and conditions, please refer to the warranty information provided with your product or contact Tripp Lite customer support.

SUPPORT

For technical assistance, product information, or warranty inquiries, please contact Tripp Lite customer support. Contact details can typically be found on the official Tripp Lite website or in the documentation included with your product.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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