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Vivolink W126974534

Vivolink USB-C 4K KVM Extender

MODEL: W126974534

User Manual

1. Introduction

The Vivolink USB-C 4K KVM Extender (Model W126974534) is designed to extend USB-C signals, including 4K video, USB data (for keyboard, mouse, and other peripherals), and control signals, over long distances using HDBaseT 3.0 technology. This system consists of a Transmitter (TX) unit and a Receiver (RX) unit, connected by a single Cat6a/7 Ethernet cable. It enables users to operate a computer or other USB-C source device from a remote location with a display, keyboard, and mouse, maintaining high-quality 4K resolution.

2. Safety Information

- Read all instructions carefully before operating the device.
- Do not expose this unit to rain, moisture, or excessive humidity.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Use only the power adapters provided with the unit.
- Do not attempt to open or modify the unit. Refer all servicing to qualified personnel.
- Keep the device away from strong electromagnetic fields.
- Disconnect power during lightning storms or when unused for long periods.

3. Package Contents

Please check the package contents carefully. If any items are missing or damaged, contact your dealer immediately.

- 1x Vivolink USB-C 4K KVM Extender Transmitter (TX) Unit
- 1x Vivolink USB-C 4K KVM Extender Receiver (RX) Unit
- 2x Power Adapters (DC 12V)
- 1x USB-C to USB-C Cable
- 1x User Manual
- Mounting accessories (if included)

4. Product Overview

The Vivolink USB-C 4K KVM Extender leverages HDBaseT 3.0 technology to provide uncompressed 4K video, audio, USB 2.0, and control signals over a single Cat6a/7 cable up to 100 meters. This solution is ideal for applications requiring remote access to a USB-C enabled computer, such as control rooms, medical imaging, digital signage, and educational facilities.



Image 1: Vivolink USB-C 4K KVM Extender units. This image displays the compact design of both the transmitter and receiver units, highlighting their various ports for connectivity.

The Transmitter unit connects to your USB-C source device (e.g., laptop, PC), while the Receiver unit connects to your display, keyboard, mouse, and other USB peripherals at the remote location. The HDBaseT 3.0 link ensures reliable and high-bandwidth transmission.

5. Setup Instructions

Follow these steps to set up your Vivolink USB-C 4K KVM Extender:

- 1. Power Off Devices:** Ensure all devices, including your source computer, display, and the KVM extender units, are powered off before making any connections.
- 2. Connect Source to Transmitter:** Connect your USB-C source device (e.g., PC, laptop) to the USB-C input port on the Transmitter (TX) unit using the provided USB-C cable.
- 3. Connect Display to Receiver:** Connect your display (monitor) to the HDMI output port on the Receiver (RX) unit using an HDMI cable.
- 4. Connect Peripherals to Receiver:** Connect your USB keyboard, mouse, and any other USB peripherals to the USB ports on the Receiver (RX) unit.
- 5. Connect TX and RX Units:** Connect the HDBaseT OUT port on the Transmitter (TX) unit to the HDBaseT IN port on the Receiver (RX) unit using a single, high-quality Cat6a or Cat7 Ethernet cable. Ensure the cable length does not exceed 100 meters for optimal performance.
- 6. Apply Power:** Connect the provided 12V DC power adapters to both the Transmitter (TX) and Receiver (RX) units, then plug them into power outlets.
- 7. Power On Devices:** Power on your display, then your source computer. The extender units will typically power on automatically when connected to power.
- 8. Verify Connection:** Check for signal on your remote display and test the functionality of your keyboard and mouse.

6. Operating Instructions

Once the Vivolink USB-C 4K KVM Extender is set up correctly, operation is straightforward:

- **Automatic Signal Detection:** The extender units are designed to automatically detect and transmit the video, audio, and USB signals from your source device to the remote display and peripherals.
- **Resolution:** The system supports resolutions up to 4K (3840x2160) at 60Hz, depending on the capabilities of your source and display devices.
- **USB Functionality:** All connected USB devices (keyboard, mouse, USB drives, etc.) should function as if directly connected to the source computer.
- **Power Cycling:** If you encounter any issues, try power cycling both the Transmitter and Receiver units, as well as your source computer and display.

7. Maintenance

To ensure the longevity and optimal performance of your Vivolink USB-C 4K KVM Extender, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings on both units are not obstructed to prevent overheating.
- **Cable Management:** Keep cables neatly organized and avoid sharp bends or excessive tension on connectors.
- **Environment:** Store and operate the device in a cool, dry environment, away from direct sunlight, heat sources, and extreme temperatures.

8. Troubleshooting

If you experience issues with your KVM extender, refer to the following troubleshooting steps:

Problem	Possible Solution
No video on remote display	<ul style="list-style-type: none">Ensure all power adapters are securely connected to both TX and RX units and plugged into active outlets.Verify the Cat6a/7 cable connecting TX and RX is properly terminated and securely plugged in.Check the HDMI cable connection between the RX unit and the display.Confirm the USB-C cable connection between the source and TX unit.Try a different HDMI cable or display.Power cycle all connected devices (source, extender units, display).
Keyboard/Mouse not responding	<ul style="list-style-type: none">Ensure USB devices are securely plugged into the RX unit's USB ports.Try connecting the USB devices to different USB ports on the RX unit.Verify the USB-C cable connection between the source and TX unit.Test the keyboard/mouse by connecting them directly to the source computer.Power cycle the extender units.

Problem	Possible Solution
Intermittent signal or flickering video	<p>Check the quality and length of the Cat6a/7 cable. Ensure it is within the recommended distance (up to 100m).</p> <p>Ensure the Cat6a/7 cable is not running parallel to power cables or other sources of electromagnetic interference.</p> <p>Verify all cable connections are secure.</p> <p>Reduce the video resolution if possible to see if stability improves.</p>

9. Specifications

- **Brand:** Vivolink
- **Model:** W126974534 (VLUSBCEXT150)
- **Technology:** HDBaseT 3.0
- **Video Resolution:** Up to 4K (3840x2160) @ 60Hz
- **Input:** USB-C (on TX unit)
- **Output:** HDMI (on RX unit)
- **USB:** USB 2.0 (on RX unit for peripherals)
- **Extension Distance:** Up to 100 meters (328 feet) over Cat6a/7 cable
- **Power Supply:** DC 12V (via included power adapters)
- **Manufacturer:** Vivolink
- **ASIN:** B0CPWLBPGF

10. Warranty and Support

Vivolink products are designed for reliability and performance. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Vivolink website. Please have your product model number (W126974534) and purchase details ready when contacting support.

Online Resources: For the latest drivers, firmware updates, and additional support documentation, please visit the Vivolink support page.