

## AXAGON ADR-210

# AXAGON ADR-210 USB 2.0 Active Extension Cable User Manual

## 1. INTRODUCTION

The AXAGON ADR-210 is an active USB 2.0 extension cable designed to extend the reach of your USB devices by 10 meters without signal degradation. This cable features an integrated signal amplifier to ensure reliable data transfer rates up to 480 Mbps, making it suitable for connecting various USB peripherals over longer distances.



Image 1: Overview of the AXAGON ADR-210 active USB 2.0 extension cable, highlighting its 10-meter length, 480 Mbps speed, USB-A male to USB-A female connectors, and power/link indicators.

## 2. KEY FEATURES

- **Active Signal Amplification:** Ensures stable data transmission over 10 meters.
- **USB 2.0 High Speed:** Supports data transfer rates up to 480 Mbps.
- **Plug and Play:** No driver installation required for most operating systems.
- **Operating System Independent:** Compatible with Windows, macOS, Linux, and other systems.
- **LED Indicators:** Features Power (red) and Link (green) LEDs for status monitoring.
- **Optional External Power:** Includes a 3.5mm jack for connecting an optional external power adapter for high-power USB devices (adapter not included).
- **Compact and Slim Design:** Facilitates easy integration and routing.

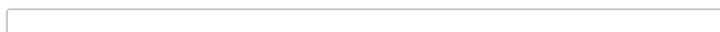


Image 2: The AXAGON ADR-210 cable, illustrating its easy plug-and-play functionality and slim design.




Image 3: The compact size of the AXAGON ADR-210's active repeater, demonstrating its compatibility with snap-on trunking rails for neat cable management.




Image 4: The AXAGON ADR-210 cable indicating its operating system independent functionality, requiring no specific drivers.

### 3. SETUP INSTRUCTIONS

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1. **Connect to Host Device:** Plug the USB-A male connector of the ADR-210 cable into an available USB 2.0 port on your computer or host device.
2. **Connect USB Device:** Plug your USB peripheral (e.g., printer, keyboard, mouse, external hard drive) into the USB-A female connector of the ADR-210 cable.
3. **Observe LED Indicators:**
  - The **red POWER LED** will illuminate when the cable receives power from the host USB port.
  - The **green LINK LED** will illuminate when a USB device is successfully connected and recognized.
4. **Optional External Power (for high-power devices):** If your connected USB device requires more power than the host USB port can provide, or if you experience unstable operation, connect an optional 5V DC power adapter (with a 3.5mm jack, not included) to the power input port on the active repeater unit.



Image 5: The AXAGON ADR-210 active repeater unit, showing the 3.5mm jack for optional external power connection.

### 4. OPERATING INSTRUCTIONS

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Once connected, the AXAGON ADR-210 cable operates transparently, extending your USB 2.0 connection. Ensure both the red POWER LED and green LINK LED are illuminated for proper functionality. The cable is designed for continuous operation and does not require any user interaction beyond initial connection.

- **Data Transfer:** The cable supports full USB 2.0 data transfer speeds up to 480 Mbps.
- **Device Compatibility:** Compatible with a wide range of USB 2.0 and USB 1.1 devices, including printers, scanners, webcams, external storage, and input devices.
- **Hot-Plugging:** USB devices can be connected and disconnected while the cable is plugged into the host device.

### 5. MAINTENANCE

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The AXAGON ADR-210 cable requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the cable and connectors. Avoid using liquid cleaners or solvents.
- **Storage:** Store the cable in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

- **Handling:** Avoid bending the cable sharply or applying excessive force to the connectors to prevent internal damage.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power LED (red)	Cable not properly connected to host USB port, or host USB port is faulty.	Ensure the USB-A male connector is fully inserted into a working USB port. Try a different USB port or host device.
No Link LED (green)	USB device not properly connected, device is faulty, or insufficient power.	Ensure the USB device is fully inserted into the female connector. Try connecting a different USB device. If it's a high-power device, connect an optional external 5V DC power adapter to the ADR-210.
Device not recognized or unstable operation	Insufficient power for the connected USB device, or a driver issue on the host.	Connect an optional external 5V DC power adapter to the ADR-210. Ensure the necessary drivers for your USB device are installed on the host computer. Try connecting the device directly to the computer to rule out device issues.
Slow data transfer speed	Connected device is USB 1.1, or there is interference/signal degradation.	Ensure both the host port and the connected device support USB 2.0 for optimal speeds. Check for other electrical devices causing interference.

## 7. TECHNICAL SPECIFICATIONS

- **Model:** ADR-210
- **Interface:** USB 2.0 (backward compatible with USB 1.1)
- **Connectors:** USB-A Male (host), USB-A Female (device)
- **Data Transfer Rate:** Up to 480 Mbps (High Speed)
- **Cable Length:** 10 meters (32.8 feet)
- **Power:** USB bus-powered, with optional external 5V DC power input (3.5mm jack)
- **LED Indicators:** Red (Power), Green (Link)
- **Operating System Compatibility:** Windows, macOS, Linux, and other OS independent systems.
- **Certifications:** CE, FCC, RoHS (as indicated on product images)

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official AXAGON website or contact your local retailer. Keep your purchase receipt for warranty claims.

**AXAGON Official Website:** [www.axagon.eu](http://www.axagon.eu)

