

ATEN VE812

ATEN VE812 HDMI Over CAT5 Extender User Manual

MODEL: VE812

1. INTRODUCTION

The ATEN VE812 HDMI Over CAT5 Extender is designed to extend an HDMI signal over a single CAT5e/6 cable. This device allows for the transmission of high-definition video and audio signals over long distances, making it ideal for various applications where the HDMI source and display are not in close proximity.

Key Features

- Extends HDMI signal over a single CAT5e/6 cable.
- Designed for high availability, scalability, and maximum flexibility.
- Supports high-definition video and audio transmission.

Package Contents

The ATEN VE812 package typically includes:

- VE812T HDMI Over CAT5 Transmitter Unit
- VE812R HDMI Over CAT5 Receiver Unit
- Power Adapters
- User Manual (this document)

2. PRODUCT OVERVIEW

The VE812 system consists of two main components: a transmitter unit (VE812T) and a receiver unit (VE812R). These units work in conjunction to extend the HDMI signal.

Components



Figure 2.1: Two ATEN VE812 extender units. The top panel of each unit features the ATEN logo and product information.



Figure 2.2: Rear view of an ATEN VE812 unit, highlighting the 'REMOTE I/O' RJ45 port for CAT5e/6 cable connection and the DC 5V power input.



Figure 2.3: Angled view of two ATEN VE812 units, providing a perspective of their compact design and port layout.

3. SETUP AND INSTALLATION

System Requirements

- HDMI source device (e.g., DVD player, computer, game console)
- HDMI display device (e.g., TV, monitor, projector)
- One CAT5e or CAT6 cable of appropriate length (up to 60m for 1080p)
- Two HDMI cables

Connection Diagram (Conceptual)

1. Connect an HDMI cable from your HDMI source device to the HDMI input port on the VE812T (Transmitter) unit.
2. Connect one end of the CAT5e/6 cable to the RJ45 port on the VE812T (Transmitter) unit.
3. Connect the other end of the CAT5e/6 cable to the RJ45 port on the VE812R (Receiver) unit.
4. Connect an HDMI cable from the HDMI output port on the VE812R (Receiver) unit to your HDMI display device.
5. Connect the provided power adapters to both the VE812T and VE812R units, then plug them into power outlets.

Step-by-Step Installation

1. Ensure all devices (HDMI source, display, and extender units) are powered off before making connections.
2. Connect the HDMI source to the VE812T.
3. Run the CAT5e/6 cable between the VE812T and VE812R units. Ensure the cable is properly terminated and meets specifications for the desired distance.
4. Connect the VE812R to the HDMI display.
5. Connect power to both extender units.
6. Power on the HDMI display, then the HDMI source. The video signal should now be extended to your display.

4. OPERATING INSTRUCTIONS

Once the ATEN VE812 HDMI Over CAT5 Extender is properly installed and powered on, it operates automatically. No additional software or configuration is typically required for basic functionality.

- **Power On:** Ensure both the transmitter and receiver units are connected to power. Status LEDs (if present) should indicate power and link status.
- **Source Selection:** Select the correct HDMI input on your display device to view the extended signal.
- **Signal Integrity:** The extender is designed to maintain signal quality over the specified distance. If you experience signal degradation, refer to the troubleshooting section.

5. MAINTENANCE

The ATEN VE812 HDMI Over CAT5 Extender requires minimal maintenance to ensure optimal performance and longevity.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the units are placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.

- **Cable Management:** Keep cables neatly organized and avoid sharp bends or excessive tension on the connectors.
- **Environmental Conditions:** Operate the device within its specified temperature and humidity ranges.

6. TROUBLESHOOTING

If you encounter issues with your ATEN VE812 extender, please refer to the following common troubleshooting steps:

- **No Video/Audio Signal:**
 - Verify that both the transmitter and receiver units are powered on.
 - Check all HDMI and CAT5e/6 cable connections to ensure they are secure.
 - Ensure the CAT5e/6 cable is not damaged and is within the recommended length for your resolution.
 - Try connecting the HDMI source directly to the display to confirm the source and display are working correctly.
 - Test with a different HDMI cable or CAT5e/6 cable if possible.
- **Poor Picture Quality (Flickering, Distortion):**
 - Ensure you are using a high-quality CAT5e or CAT6 cable.
 - Reduce the length of the CAT5e/6 cable if it is near the maximum supported distance.
 - Check for strong electromagnetic interference (EMI) sources near the CAT5e/6 cable.
- **Intermittent Signal:**
 - Ensure power adapters are firmly connected and providing stable power.
 - Check for loose cable connections.

7. SPECIFICATIONS

Attribute	Detail
Brand	ATEN
Series	VE812
Item Model Number	VE812
Item Weight	3 pounds
Product Dimensions	4 x 11 x 7 inches
Color	Black
Manufacturer	ATEN TECHNOLOGY
ASIN	B00FG96GTU
Date First Available	September 30, 2013

8. SUPPORT AND WARRANTY

ATEN is committed to providing reliable products and customer satisfaction. For technical assistance or warranty inquiries, please refer to the following information:

- **Technical Support:** ATEN offers free technical support to assist with product setup, troubleshooting, and general inquiries. Please visit the official ATEN website for contact information and support resources.
- **Warranty Information:** This product is covered by ATEN's standard warranty. Details regarding warranty duration and terms can be found on the official ATEN website or by contacting customer service. Extended warranty service packages may also be available.
- **Localized Repair Center:** ATEN provides localized repair centers for Return Merchandise Authorization (RMA) services.