HDMI

HDMI0102SCATV3
4K 18Gbps 1x2 HDMI splitter with auto-scaling and PoC

User Guide

Important Safety Notice

Thank you for purchasing this Antiference HDMI distribution product. Please read the following instructions carefully, retain for future reference and read the following safety considerations:

1. Do not place any items on the device
2. Ensure no liquids are on or near the device as splashes may damage the unit
3. For cleaning, use a damp cloth only without solvents
4. Do not attempt to open the case as there is a danger of electric shock
5. Repairs should be carried out by a qualified technician
6. Place the unit in a well ventilated area to prevent overheating
7. Carry out the installation before connecting the device to a source of power
8. Use only the supplied power supply as 3rd party products may damage the product

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1. Introduction

This 18Gbps HDMI splitter/extender splits a single 4K/HD source to 2 remote displays and a local HDMI display. It sends up to 3840x2160p@60 (4:4:4) resolution signals up to 70m over a single CAT6 cable with HDCP 2.2 support. It also supports bi-directional IR control, advanced EDID management, audio output selector on receiver, RS232 signal pass-through & PoC. In addition it features an auto-scaling function enabling a 1080p/HD display to receive the content from a 4K source.

2. Features

- 18Gbps video bandwidth
- 1 HDMI input, 2 CAT6 outputs + local HDMI loop through
- Supports resolutions up to 2160p@60 4:4:4 with HDCP2.2
- Extend UHD@60 or 1080p@60 to 70m over a single CAT6 cable
- Auto-scaling function
- Supports bi-directional IR control
- Advanced EDID management system
- One way PoC system (power sent from splitter unit to receiver only)
- Supports up to 5.1CH Dolby Digital audio pass-through
- HDMI or S/PDIF audio output selector on receiver

3. Package contents

4. Operation Controls and Functions

4.1. Installation Requirements

1. HDMI source such as SKYQ/HD, Blu Ray or games console etc
2. HDMI external display device such as HDTV or monitor
3. UTP/STP CAT6/CAT6A/CAT7 following standard IEE-568B. High quality cables recommended only.

4.2. Transmitter (TX) Panel Description

4.3. Receiver (RX) Panel Description

5. Installation Procedure

5.1. Network Cable

• Configure the CAT6 cable RJ45 terminations to IEEE-568B

1 - Orange/white	2 - Orange	3 - Green/white
4 - Blue	5 - Blue/white	6 - Green
7 - Brown/white	8 - Brown	

5.2. Connection Instructions

1. Connect the HDMI source to the HDMI input port on the transmitter
2. Connect CAT6 output ports of the transmitter to the CAT6 input on each receiver
3. Connect up the external displays from the receviers via the HDMI port
4. If required, connect a local display to the HDMI OUT port on the transmitter
5. Connect RS232 if used
6. Power up transmitter with supplied power adaptor

5.3. IR Set Up

1. IR blaster sensor should be connected to the IR OUT port on the transmitter
2. Position the sensor in the correct location in front of the source to enable signal
3. Connect the IR receiver at the remote locations to the IR IN port and place in view.
4. Point remote control at IR receiver to enable control of the source remotely.

6. EDID Settings

There are 16 built-in EIDID modes in the product which can be switched via the dip switches on the front panel. The switch in the upward position indicates '1' and the pressed downward indicates '0'.
The table below outlines the configuration of the switches for the various EDID modes:

7. RS232 Settings

The product also supports command control via RS232. To configure this functionality, connect the RS232 port on the product to a PC with a 3 pin phoenix connection cable. Then, open a Serial Command tool/program on your PC to send commands to control the product.

The default configuration is:
Baud rate - 9800
Data bits - 8
Stop bits - 1
Parity - 0

The command list follows in the table below:

8. Auto-scaling Function

This Antiference HDMI splitter supports an auto-scaling function allowing a 1080p display to receive content from a 4K source. The system simply identifies the maximum resolution of the displays connected via the EDID of the display and automatically downscales to 1080p if required.

This function **does not** support any other resolutions such as 720p so if there is no video on a connected display then it most likely does not support 1080p or 4K.

9. FAQ

Q: Why is there no image on the external display in the remote location?
A: 1. Check the power supply is connected and the system is running. Check the LED lights on the transmitter and receiver.
   2. Check the source input. Is there a signal coming through?
   3. If using RS232 controls, make sure the corresponding network port is not turned off

Q: The output image is unstable. Why could this be?
A: 1. Check that the cable length is within the 70m range when using CAT6
   2. Press the rest button on the recevier(s) and transmitter to reconnect the system.

Q: The picture is snowy, fuzzy or sparkly
A: 1. Change the HDMI cable for a shorter one or a new one.
   2. The recommended HDMI cable lengths are: transmitter - 3m, recevier - 5m

10. Technical Specifications

Declaration of Conformity

We, ANTIFERENCE LIMITED herewith declare that the HDMI extender kit complies with all essential requirements and any other applicable conditions set forth on directive 2014/30/EU.

According to the WEEE (Waste Electrical and Electronic Equipment) EU Directive, do not dispose of this product as household waste or commercial waste. Waste Electrical and Electronic Equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

A full declaration document can be found on our website www.antiference.co.uk

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