

HDMI 18Gbps Repeater with 4K Scaler

User Manual

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the service life of your equipment.

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1. Introduction

The machine is a HDMI Repeater with one input and one output port, it can do scaler up/down/pass-through . Furthermore,both input and output HDMI support video resolution up to 4K2K@60Hz (YUV444) and HDMI high resolution digital audio formats bypass,LPCM 2CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, audio sampling rate up to 192 kHz. HDCP 2.2 and CEC bypass supported.

2. Features

- ✦ HDMI 6G 20M Re-timer & Repeater with scaling
- ✦ Amplifies and equalizes the HDMI signal to provide high quality audio and video
- ✦ HDMI extension transmission over long cable and supports multiple layers cascading
- ✦ Support display resolutions up to 4K2K@30Hz,1080P@120Hz,and 1080P 3D@60Hz
- ✦ 20 meters HDMI high-speed cable extender (input max 10 meters, output max 10 meters at 4K2K@60Hz)
30 meters HDMI high-speed cable extender (input max 18 meters, output max 12 meters at 4K2K@30Hz)
40 meters HDMI high-speed cable extender (input max 25 meters, output max 15 meters at 1080p)

- ✦ Supports scaling up/down between 4K and 1080p (no frame rate conversion)
- ✦ HDCP 2.2 or HDCP 1.4 indicator
- ✦ Dolby® TrueHD, DTS-HD Master Audio™, and LPCM digital audio streams up to 7.1 channels
- ✦ HDCP/3D/CEC/Lip-Sync pass-through

3. Package Contents

- ✦ 1 x HDMI 18Gbps HDMI repeater with scaler
- ✦ 1 x 5V/1A Power Adaptor
- ✦ 1 x User Manual

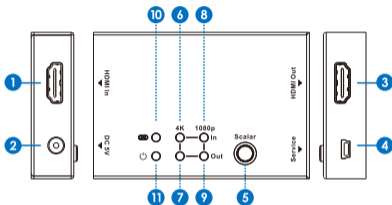
4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolutions	up to 4K2K@50/60Hz(YUV4:4:4),4K2K@30Hz, 1080P@120Hz, and 1080P 3D@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	10-bit, 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio

ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections	
Inputs	1x HDMI Type A [19-pin female]
Outputs	1x HDMI Type A [19-pin female]
USB Connector	1x Mini-USB (firmware upgrade only)
DC POWER	5V-1A DC-JACK
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	81mm [W] x 55mm [D] x 16mm [H]
Weight	135g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	3W(Max)
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions

5.1 Front Panel



- 1 HDMI In:** HDMI signal input port
- 2 DC-5V:** 5V-1A power in
- 3 HDMI Out:** HDMI signal output port
- 4 Service:** Firmware update port
- 5 Scaler:** scaling up/down between 4K and 1080p/pass through
- 6 4K In:** 4K HDMI signal input blue LED indicator
- 7 4K Out:** 4K HDMI signal output blue LED indicator
- 8 1080p in:** 1080p HDMI signal input blue LED indicator
- 9 1080p Out:** 1080p HDMI signal output blue LED indicator
- 10** Detect the signal input blue LED indicator
- 11** Power input red LED indicator

6. Connection Diagram

