Prestel

Prestel RH2

1HDMI 18Gbps Repeater

HDMI 18Gbps
REPEATER

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 compone-nts that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction

The HDMI 18Gbps Repeater is the most advanc
-ed solution for HDMI signal extension/cascade.
It can amplify and equalize signals to improve the
quality of audio and video signal. It supports the
transmission distance up to 8m at the resolution
of 4K2K@50/60Hz(YUV_444), 15m at 4K2K@
60Hz(YUV_420) and 20m at 1080p@60Hz.
Capable of receiving and transmitting 18Gbps
bandwidth rate with CDR (Clock Data Recovery)
to ensure no data loss.

2. Features

☆ Compliant with HDMI 2.0b, HDCP 2.2 / 1.x and
  DVI 1.0
☆ Support 18Gbps video bandwidth
☆ Support resolution up to 4K2K@60Hz 4:4:4
☆ Support HLG, HDR 10, HDR 10+ and dolby
  vision
☆ Built-in TMDS equalization and CDR (Clock Rate
  Recovery) for extending HDMI cable distance

☆ Support transmission distance up to 8m at the resolution of 4K2K@50/60Hz(YUV_444), 15m at 4K2K@60Hz(YUV_420) and 20m at 1080p @60Hz

☆ Require the HDMI source device to output power to the unit via an HDMI cable

☆ Simple plug and play, no drive and installation setting are required

☆ Compact design for easy and flexible installation

3. Package Contents

① 1× HDMI Repeater
② 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 / 1.x
Video Bandwidth	18 Gbps
Video Resolution	Up to 4k2k@60Hz YUV 4:4:4
Color Depth	8-bit,10-bit,12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit,10-bit,12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
Color Space	RGB, YCbCr 4:4:4, YUV 4:4:4, YCbCr 4:2:2/4:2:0
HDMI Audio Formats	PCM2.0/5.1/7.1CH, Dolby 5.1, DTS5.1, Dollby-TrueHD, DTS-HD
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection	
Input	1x HDMI Type A [19-pin female]
Output	1x HDMI Type A [19-pin female]
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	48.6mm[W] x 25mm[D] x 15mm[H]
Weight	13g
Power Supply	HDMI
Operating 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

No.	Name	Function Description
1	HDMI IN	HDMI input port, connect to HDMI source device such as DVD or PS3 with an HDMI cable.
2	HDMI OUT	HDMI output port, connect to HDMI display device such as TV or monitor with an HDMI cable.

6. Application Example

Repeater

PC

HDMI cable

HDMI cable

TV