



EGE-BOOS-UHD HDMI 4K2K Repeater with Power Supply



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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person to walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

VER- SION NO.	DATE (DD/MM/YY)	SUMMARY OF CHANGE
RDV1	14/06/13	Preliminary Release
RDV2	13/09/13	Product Diagram

REVISION HISTORY

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1. INTRODUCTION

The HDMI[™] 4Kx2K Repeater is the most advanced solution for HDMI to HDMI signal repeater. It does amplifies signal and equalization to provide high performance I/O of audio and video through HDMI cable for distance up to 15 meters at 1080p@60Hz at 8-bit resolution.

2. APPLICATIONS

• Extending 4Kx2K audio and video signal

3. PACKAGE CONTENTS

- HDMI 4Kx2K Repeater
- 5V Power adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

Input source equipment such as Blu-ray/PS3 player and output display (TV/monitor) with HDMI connection cables.

5. FEATURES

- Compliant with HDMI, HDCP 1.2 and DVI 1.0
- Supports HDMI audio sampling rate up to 192 kHz
- · HDMI supports high-bit-rate (HBR) audio
- Maximum input and output HDMI cable length can run up to 15 meters at 1080p
 8-bit resolution or 10 meters ate 1080p 12-bit resolution
- Supports equalize and recover incoming TMDS data before re-transmitting them with optimal quality regarding of the incoming signal quality.
- Full HDCP compliant
- Supports CEC bypass function
- · Supports DVI conversion with HDMI to DVI adaptor
- Supports 4Kx2K resolution and 3D signal

Note: When displaying HDMI 4Kx2K signal, equivalent source signal, output display and HDMI cables are required in order to secure the best image display.

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



HDCP:

This LED will illuminate when HDCP has been detected.

2 Link:

This LED will illuminate when input source is connected with HDMI signal.

3 Power:

This LED will illuminate when the unit is connected with power supply.

6.2 Right Panel



1 Service:

This port is reserved for firmware update only.

2 HDMI In:

This slot is to connect with source equipment such as Blu-ray/PS3 player with HDMI signal sending.

6.3 Left Panel



HDMI OUT:

Connect to the display (TV/monitor) with an HDMI cable for video and audio signal output. For 4Kx2K or 3D image display, an equivalent standard display is required.

6.4 Front Panel



1 Power:

Press this button to switch on the device or to set it into standby mode.

2 DC 5V:

Plug with 5V DC power adaptor from the AC wall outlet for power supply.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Video Bandwidth	300Mbps / 10.2Gbps
Input Ports	1 x HDMI,
	1 x Mini-USB (service only)
Output Port	1 x HDMI
HDMI Audio Sampling	Up to 192 kHz
Rate	
HDMI Audio Format	LPCM 2/5.1/7.1CH, Dolby Digital
	2~5.1CH, DTS 2~5.1CH, Dolby
	Digital Plus, Dolby TrueHD, and
	DTSHD
	Master Audio
HDMI I/O 4Kx2K Cable Distance	10m/10m
Power Supply	5V / 1.2A DC (US/EU standards, CE/
	FCC/UL certified)
ESD Protection	Human body model:
	±8kV (air-gap discharge)
	±6kV (contact discharge)
Dimensions	85 (W) x 87.5 (D) x 34(H)
Weight	102 g
Chassis Material	Plastic
Silkscreen Color	White
Operating	0 °C ~ 40 °C/32 °F ~ 104 °F
Temperature	
Storage Temperature	–20 °C ~ 60°C/–4 °F ~ 140 °F
Relative Humidity	20 ~ 90 % RH (non-condensing)
Power Consumption	2.5 W

9. ACRONYMS

ACRONYM	COMPLETE TERM	
4Kx2K	3840 x 2160 / 4096 x 2160	
DTS	Digital Theater System	
EDID	Extended Display Identification Data	
HDCP	High-bandwidth Digital Content Protection	
HDMI	High-Definition Multimedia Interface	
TMDS	Transition-minimized differential signaling	

