

CDA-1248GAE

Pro AV/IT Integrator Series™ HDMI 8K60Hz UHD 1x2 Distribution Amplifier
Splitter with Audio Extraction, EDID Management



User Manual

Safety Instructions

Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:

- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stoves, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

Introduction

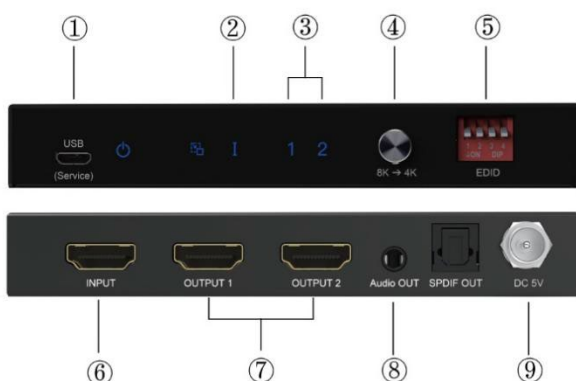
The Comprehensive CDA-1248GAE is a HDMI 1x2 Splitter that distributes one (1) HDMI source signal to two (2) HDMI displays simultaneously which supports resolutions up to 8K@60Hz (4:4:4) 48Gbps. The CDA-1248GAE can extract audio from the HDMI source to both optical and analog outputs simultaneously.

The CDA-1248GAE can handle and split 8K UHD content as it was meant to be seen! Supports 8K@60Hz, 4K@120Hz, and 1080p@240Hz. Enjoy sharp, crystal-clear visuals and smooth motion without any compromise in quality.

Features

- HDMI 2.1, HDCP 2.3/2.2/1.4 complaint
- Supports 48Gbps video bandwidth
- Supports EDID management
- Supports video resolutions up to 8K@60Hz (4:4:4), 4K@120Hz, and 1080p@240Hz
- Supports High Dynamic Range (HDR) video pass-through
- Supports digital and analog audio extract output from HDMI source
- Supports Consumer Electronics Control (CEC) function
- EDID can be selected COPY and AUTO modes via the dial switch on panel
- Supports HDMI audio format: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
- 3 Year Worry-Free Warranty

Panel Description



1. USB(Service): For Factory Use Only
2. I: HDMI Input LED Indicator
3. 1-2: HDMI Output 1-2 LED Indicator
4. **8K→4K**: Down-scaler Mode Select Button
ON is In Down-scaler EDID Mode which can downscale the Input 8K Resolution to 4K or 1080p by the UHD (4K) or FHD (1080p) Display for fixed connect to the output2 port and 8K Resolution to the 8K Displays Simultaneously for fixed connect to the output1 port.
5. EDID: DIP Switch for Copy Output1 EDID and Fifteen Default EDID modes
6. INPUT: HDMI Input port
7. OUTPUT 1-2: HDMI Output 1-2 port
8. Audio Output and SPDIF Output: Connect to the Audio Output Devices via 3.5mm Cable and SPDIF Cable
9. DC/5V: DC 5V Input

Note:

1. If you would like to output 8K@60Hz,4K@120Hz and 1080P@240Hz via the switcher in your displays, please make sure your source devices, your cable and your monitors can all support the resolution and refresh rate you need to output before
2. You need to connect a standard HDMI-compatible 2.1 cable to enjoy 8K visual effects


 ↓ = HIGH ↑ = LOW

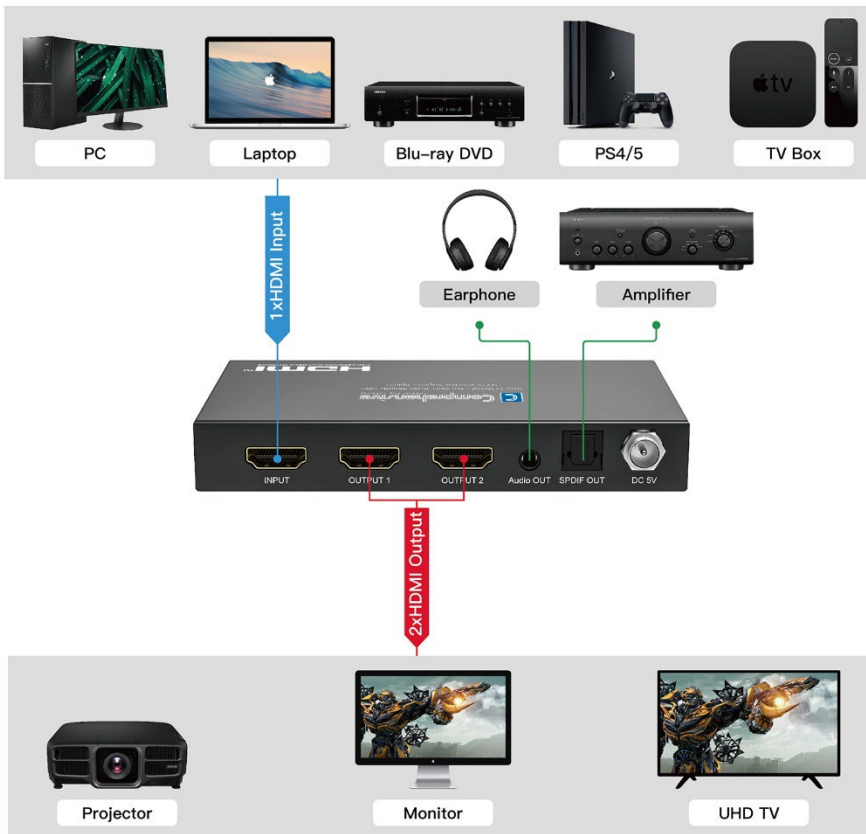
Binary Code	1 2 3 4	EDID Setting Description
0000	↑↑↑↑	Copy EDID from HDMI Output1
1000	↓↑↑↑	8Kx4K@60 4:4:4/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, 2CH AUDIO
0100	↑↓↑↑	8Kx4K@60 4:4:4/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, DOLBY/DTS 5.1
1100	↓↓↑↑	8Kx4K@60 4:4:4/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, HD AUDIO
0010	↑↑↓↑	4Kx2K@60, 18G, HDR10, 2CH AUDIO
1010	↓↑↓↑	4Kx2K@60, 18G, HDR10, DOLBY/DTS 5.1
0110	↑↓↓↑	4Kx2K@60, 18G, HDR10, HD AUDIO
1110	↓↓↓↑	4Kx2K@60, 10.2G, HDR10, 2CH AUDIO
0001	↑↑↑↓	4Kx2K@60, 10.2G, HDR10, DOLBY/DTS 5.1
1001	↓↑↑↓	4Kx2K@60, 10.2G, HDR10, HD AUDIO
0101	↑↓↑↓	1080p, 2CH AUDIO
1101	↓↑↓↓	1080p, DOLBY/DTS 5.1
0011	↑↑↓↓	1080p, HD AUDIO
1011	↓↑↓↓	1280x720p@60 DVI
0111	↑↓↓↓	1920x1080p@60 DVI
1111	↓↓↓↓	4Kx2K@30, 10.2G, HDR, 2CH AUDIO

Specifications

Input Ports	HDMI x1
Output Ports	HDMI x2
Vertical Frequency Range	50/60Hz
Video Amplifier Bandwidth	12Gbps/1200MHz per channel (48Gbps all channels)
Interlaced(50&60Hz)	480i,576i,1080i
Progressive(50&60Hz)	480p,576p,720p,1080p,4K@24/30Hz,4K @50/60/120Hz, 8K @24/30/50/60Hz
Limited Warranty	3 Year Parts and Labor
Operating Temperature	0°C to 70°C
Storage Humidity	5% to 90% RH non-condensation
Power Supply	5V DC @1A
Power Consumption (Max)	5W
Splitter Unit Cert	FCC, CE, RoHS
Power Supply Cert	FCC, CE, RoHS
Power Adapter Standard	US, EU, UK, AU Standard etc.
Dimensions (LxWxH)	122*70.5*18.5mm
Net Weight	188g

Note: Specifications are subject to change without notice.

Connection Diagram



Package Contents

- 1x CDA-1248GAE (1x2 HDMI Splitter)
- 1x 5V/1A Power Adapter
- 1x User Manual

Troubleshooting Possible Issues

Q: Power light is off and product is not working. How can I fix this?

A: First, please check the following items:

1. Ensure that your device's HDMI input device and power supply are properly connected and power it on.
2. Check the HDMI port of display is selected correctly and properly connected as using.

Q: My second display flickers when I use the splitter. What could be causing this?

A: This may be caused by one or more of the following:

1. Make sure the HDMI cable and splitter are securely connected.
2. Ensure the HDMI cable is a standard HDMI 2.1 cable, and the length is under the splitter limited length 2 meters HDMI in and out at 8K/60Hz 4:4:4, 4K@60Hz can reach 4m in and 4m out.
3. Change to another port to have a try of the display.
4. Change to another EDID mode to check if the display is operating or not.

Q: The splitter can't output two 8K displays at the same time. Is that normal?

A: No, the CDA-1248GAE supports two 8K displays simultaneously. When in "auto" or "copy" mode both displays will support the same 8K resolution. When in down-scaler mode, the output-1 will output 8K@60Hz 4:4:4, and the output-2 will output the 4K or 1080p resolution which fits the connected display's resolution.



The Pro's Connectivity Since 1974

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