



HDMI 2.1 48Gbps 4x1 Switch with Audio De-embedder

500513



Overview

The HDMI 2.1 48Gbps 4x1 Switch with Audio De-embedder (model: 500513) is a 4-in-1-out 8K switch. It supports 4 HDMI signal inputs and 1 HDMI signal output, the highest resolution is 8K@60Hz and is backward compatible, also supports advanced EDID management, CEC control, ARC/eARC and audio de-embedded function (Output through the optical and analog audio port). The product is widely used in security monitoring, media entertainment, broadcasting, command centers, and more.

Applications

- Ideal for security surveillance setups requiring high-resolution video switching.
- Capable of handling 8K resolution, providing detailed and clear visuals for monitoring purposes.
- Enhances the audio-visual experience in home theaters and entertainment systems. .
- Supports high-quality video switching for mission-critical applications in control rooms.

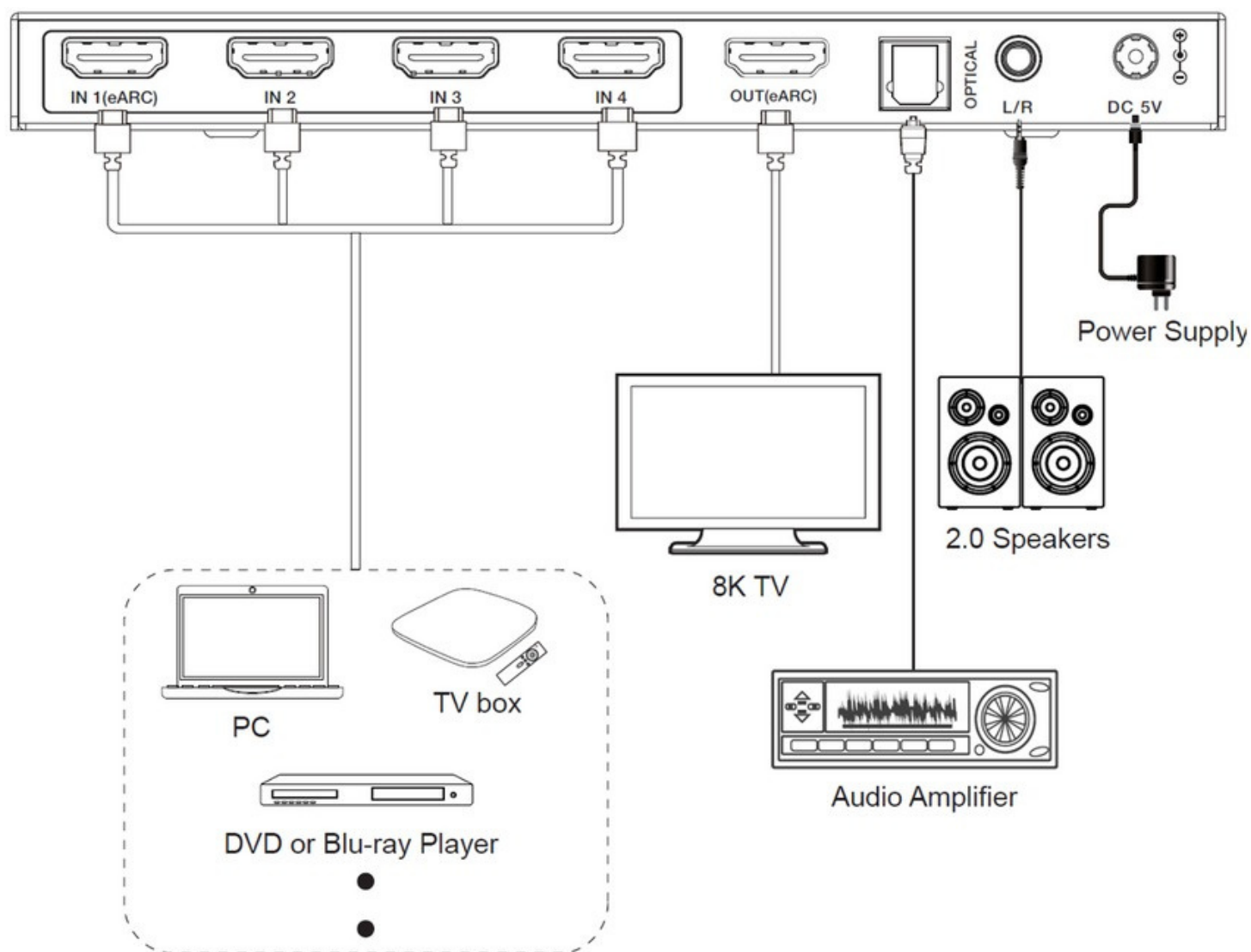
Key Features

- HDCP 2.3 compliant.
- Supports 48GbpsFRL and 18GbpsTMDS video bandwidth.
- Video resolution up to 8K@60Hz 4:2:0 12bit, 8K@30Hz 4:4:4 12bit, 4K@120Hz 4:4:4 12bit, as specified in HDMI 2.1
- Supports HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through.
- Supports HDMI audio formats: LPCM 7.1CH, Dolby TrueHD, Atmos and DTS-HD Master, DTS:X Audio pass-through.
- Supports HDMI input and TV eARC audio de-embedded to SPDIF and L/R audio output.
- Supports advanced EDID management.
- Firmware can be upgraded through USB-C port.

Specification

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Audio Latency	No Latency
Video Latency	No Latency
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 8K@30Hz4:4:4 12bit, 4K@120Hz 4:4:4 12bit
Color Depth	8/10/12bit
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Audio Formats	HDMI Input/Output: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X, DSD eARC Audio Out: LPCM,Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X ,DSD Audio De-embedded Output: Optical: LPCM 2.0CH/Dolby/DTS 5.1CH Analog: LPCM 2.0CH
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	4 × HDMI IN [Type A, 19-pin female]
Output	1 × HDMI OUT [Type A, 19-pin female] 1 × OPTICAL [S/PDIF] 1 × L/R [3.5mm Stereo Mini-jack]
Control	1 × SERVICE [USB Type C, Update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	176mm [W] × 68mm [D] × 18mm [H]
Weight	315g
Power Supply	Input: 100-240VAC 50/60Hz, Output: 5VDC/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	2.5W (Max)
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C/-4°F ~ 140°F
Relative Humidity	20~90% RH (Non-condensing)
Warranty	2 years
Order Information	500513 HDMI 2.1 48Gbps 4x1 Switcher with Audio De-embedder (UPC: 627699005132)

Application Example



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