

## AVG-8KS41-401

### 4 x 1 HDMI 2.1 switcher with ARC and Audio De-embedding



This AVönic product is a 4 x 1 HDMI 2.1 switcher. It supports automatic or manual switching from four HDMI 2.1 inputs to one HDMI 2.1 output. It supports resolutions up to 8K@60 4:2:0 10bit and 4K@120Hz 10bit in FRL mode, and up to 10K@120Hz 4:2:0 12bit in DSC mode. The switcher is also latest HDCP

2.3 compatible. DIP switch on front panel enables EDID management and flexible audio path control. With IR and RS232 port on front panel, the device also supports 3rd party system control for automation.

## Features

- AVon-Link technology simplifies audio & video routing and enhances system flexibility and ease of use.
- Four HDMI 2.1 inputs and one HDMI 2.1 output;
- Supports resolutions up to 8K@60 4:2:0 and 4K@120 10bit in FRL mode, and up to 10K@120Hz 4:2:0 12bit in DSC mode, with HDCP 2.3 compatible;
- Supports up to 40Gbps FRL and 18Gbps TMDS;
- FRL to TMDS and TMDS to FRL mode conversion;
- HDMI 2.1 protocols supported, including VRR, FVA, ALLM etc.;
- HDR pass-through, including dynamic HDR metadata, i.e., HDR10+ and Dolby Vision;
- DSC 1.2a pass-through;
- Support EDID management through the DIP switch.
- Support SPDIF audio output from HDMI embedded audio or ARC audio via HDMI output;
- Support full CEC pass-through;
- Support automatic switching and manual switching;
- Support firmware upgrade through the Micro USB port;
- Supports providing a 5V 500mA HDMI power supply via the HDMI output;
- Support IR remote and serial RS232 control.

## Specifications

Technical	
Input/output ports	4 x HDMI IN, 1 x HDMI OUT, 1 x S/PDIF OUT, 1 x FW (Micro USB), 1 x IR IN, 1 x RS232, 1 x DC 12V IN

Input/Output signal type	Up to 8K@60Hz 4:2:0 10bit in FRL mode and up to 10K@120Hz 4:2:0 12bit in DSC mode, HDCP 2.3
	<b>VESA:</b> 800 x 6006, 1024 x 7686, 1280 x 7686, 1280 x 8006, 1280 x 9606, 1280 x 10246, 1360 x 7686, 1366 x 7686, 1440 x 9006, 1600 x 9006, 1600 x 12006, 1680 x 10506, 1920 x 12006, 2048 x 11526
Input/Output Resolution Supported	<b>HDTV resolutions:</b> 1280 x 720P5,6,7,8, 1920 x 1080P5, 6,7,8, 3840 x 2160P1,2,3,4,5,6,7,8, 4096 x 2160P1,2,3,4,5,6,7,8, 7680 x 4320P1,2,3,4,5,6 1 = at 24(23.98) Hz, 2 = at 25 Hz, 3 = at 30(29.97) Hz, 4 = at 48 Hz, 5 = at 50 Hz, 6 = 60(59.94) Hz, 7 = at 100Hz, 8 = at 120Hz Note: The device can transmit signals with resolutions up to 10K@120Hz 4:2:0 12bit in DSC mode.
Maximum Data Rate	<b>FRL Mode:</b> 40Gbps <b>TMDS Mode:</b> 18Gbps
Audio Format	<b>HDMI In/Out:</b> up to PCM 7.1 192KHz, Dolby Digital Plus and Dolby True-HD up to 192KHz, Dolby Atmos and DTS:X <b>S/PDIF Out:</b> up to PCM 2CH 192KHz, Dolby Digital, Dolby Digital Plus, and DTS 5.1CH

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 12V 1A
Power Consumption (Max)	3.5W

Device Dimension (W x H x D)	200mm x 18mm x 90.2mm/7.87" x 0.71" x 3.55"
Product Weight	0.45kg/0.99lb

## Transmission Distance

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Cable Type	Range	Supported Video
HDMI 2.0	Input/Output: 10m/33ft	4K@30Hz
	Input/Output: 5m/16ft	4K@60Hz
HDMI 2.1	Input/Output: 5m/16ft	8K@60Hz 4:2:0 10bit



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