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HDMI V2.0 1x16 SPLITTER

4K@60Hz 4:4:4 splitter with automatic downscaling, HDR, Dolby Vision and AOC support.

1 x 16 HDMI	4K60 4:4:4	HDR10	DOLBY VISION	18 Gbps
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01 OVERVIEW

The JI-S116 distributes one HDMI source to sixteen HDMI outputs and supports signals up to 4K@60Hz 4:4:4, HDR10 and Dolby Vision. It provides automatic 4K-to-1080p downscaling for mixed-resolution displays, smart EDID and HDCP management, analog L/R audio de-embedding, CEC and RS232 control, plus AOC compatibility with 5V/100mA power available on each HDMI output.

02 KEY FEATURES

- **1x16 HDMI distribution**

One HDMI source distributed to sixteen independent HDMI outputs.
- **Smart EDID management**

Front-panel 4-pin DIP switch and RS232 support EDID and HDCP management.
- **4K60 HDR video**

Up to 3840x2160@60Hz 4:4:4 8-bit with HDR10 and Dolby Vision.
- **Audio de-embedding**

Stereo analog RCA L/R output extracts audio from the HDMI input.
- **Automatic downscaling**

Automatically converts compatible 4K inputs to 1080p for 1080p displays.
- **High-definition audio**

Pass-through for LPCM 7.1, Dolby Atmos, TrueHD, DTS:X and DTS-HD MA.
- **AOC cable support**

Each HDMI output can provide up to 5V/100mA for active optical HDMI cables.
- **Control and service**

RS232 control, CEC support and Micro-USB firmware upgrade port.

03 VIDEO & AUDIO CAPABILITIES

HDMI 2.0	HDCP 2.2	4K60 4:4:4	HDR10	DOLBY VISION	18 GBPS
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04 SIGNAL MANAGEMENT & CONTROL

- 1 **EDID / HDCP DIP SWITCH**

4-pin DIP switch manages EDID profiles and HDCP behavior directly from the front panel.
- 2 **AOC POWER SUPPORT**

Each HDMI output provides up to 5V/100mA to support compatible active optical HDMI cables.
- 3 **AUTO DOWNSCALING**

Compatible 4K inputs can be automatically downscaled to 1080p for connected 1080p displays.
- 4 **ANALOG AUDIO OUTPUT**

Stereo RCA L/R provides de-embedded audio from the HDMI input.
- 5 **RS232 CONTROL**

DB9 serial control supports system, EDID, HDCP, video output and downscaling commands.
- 6 **FIRMWARE UPGRADE**

Micro-USB FW port supports product firmware update.
- 7 **CEC SUPPORT**

CEC commands are supported for compatible source and output devices.
- 8 **OUTPUT STATUS LEDS**

Sixteen green LEDs indicate HDMI output signal presence by channel.

05 DOWNSCALING SUPPORT

INPUT	DOWNSCALED OUTPUT
4K 60Hz 4:4:4	1080p 60Hz 4:4:4
4K 50Hz 4:4:4	1080p 50Hz 4:4:4
4K 30Hz 4:4:4	1080p 30Hz 4:4:4
4K 25Hz 4:4:4	1080p 25Hz 4:4:4
4K 24Hz 4:4:4	1080p 24Hz 4:4:4
4K 23Hz 4:4:4	1080p 23Hz 4:4:4
4K 60Hz 4:2:0	1080p 60Hz 4:4:4
4K 50Hz 4:2:0	1080p 50Hz 4:4:4

06 TECHNICAL SPECIFICATIONS

VIDEO	
Input	1 x HDMI Type-A female
Output	16 x HDMI Type-A female
Video resolution	Up to 4K@60Hz 4:4:4 8-bit, HDR10, Dolby Vision
HDMI standard	HDMI 2.0
HDCP	HDCP 2.2
Bandwidth	18 Gbps
HDMI output power	Up to 5V/100mA per output for compatible AOC cable
HDMI AUDIO	
Pass-through formats	LPCM 7.1, Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, DTS:X and DTS-HD Master Audio
Analog audio output	1 x stereo RCA (L+R)
Frequency response	20Hz - 20kHz, +/-1dB
THD+N	< 0.05%, 20Hz - 20kHz bandwidth
SNR	> 80dB, 20Hz - 20kHz bandwidth
Crosstalk isolation	< -80dB
Noise level	-80dB

06 TECHNICAL SPECIFICATIONS - CONTINUED

CONTROL & SYSTEM	
Control interfaces	EDID DIP switch · RS232 · CEC
Firmware port	1 x Micro-USB
RS232 connector	1 x Female DB9
EDID control	4-pin DIP switch

GENERAL	
Power supply	Input: AC 100-240V, 50/60Hz; Output: 24V DC 1.25A
Power consumption	26W max.
Operating temperature	-5°C to +55°C
Storage temperature	-25°C to +70°C
Relative humidity	10% - 90%
Dimensions (W x H x D)	268 x 40 x 125 mm
Net weight	1.14 kg

07 ORDERING INFORMATION

MODEL	DESCRIPTION	KEY CAPABILITIES
J1-S116	HDMI 2.0 1x16 Splitter	4K60 · HDR · Downscaling · AOC

Specifications are derived from the J1-S116 product documentation and are subject to change without prior notice.

08 ABOUT JISTRON

Jistron is a European audio-visual brand headquartered in Tallinn, Estonia. It supplies professional conference, control and AV infrastructure solutions for meeting rooms, command environments and integrated installations.

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