

KanexPro®

1x16 HDMI 2.0 Splitter with Downscaling

The KanexPro HDMI amplifier offers an ideal, cost effective means for extending and distributing digital video, multichannel audio, and control signals using IR from HDMI equipped devices. Each receiver is specifically calibrated to work with the splitter as a full functional unit enabling full 4K resolution.

MPN: SP-1X16SL18G



The KanexPro 1x16 HDMI 2.0 Splitter with Downscaling is an installer-friendly, lightweight HDMI splitter that distributes one HDMI input into sixteen outputs supporting uncompressed 4K UHD resolutions as well as video resolution down-scaling, the 4K input can be automatically downscaled to 1080p output for compatibility with 1080p displays. The system also supports stereo analog L/R audio output is provided for audio de-embedding from HDMI input

The distribution amplifier fully conforms to the latest High Speed HDMI specifications with HDCP 2.2. This professional HDMI splitter is optimized for distributing HDMI video and embedded multi-channel digital audio to multiple display environments such as residential or digital signage markets, airports, shopping malls and medical imaging markets.

Industry Standard HDCP 2.2 & 4K/60Hz

HDCP 2.2 authentication is present always on this matrix ensuring proper handshake of the protected content. It also maintains resolutions up to 4K- 4096x2160@24, 30, 50 or 60Hz, 3840x2160@24, 25,30, 50 or 60Hz and 2560x1080@60Hz displaying 21:9 aspect ratios. 1920 x 1200 or full HD 1080p/60 is a standard for all our matrix switchers.

Applications:

Perfect for house of worship centers, retail stores and restaurant applications where one HDMI device can be distributed to sixteen displays.

PROFESSIONAL PERFORMANCE

Built to commercial standards, KanexPro products offer premium features like locking power connectors, metal enclosures, and passive cooling designs which are a must for long term reliable and stable installations.

- 1. Restaurants/ Sports bars/Lounges:** Share a single video source with displays in various locations within single or multiple spaces.
- 2. Entertainment Spaces:** Share a single cable box or source amongst multiple displays in an outdoor patio, dining area, or entertainment hall.
- 3. Reduce Complexity:** An all-in-one splitter system reduces the complexity and the number of cables and components needed for a system with multiple displays or projectors of varying resolutions.

FEATURES

- Supports HDMI V2.0 and the video resolution up to 4K@60Hz 4:4:4.
- Supports HDCP 2.2
- Compatible with HDMI AOC cables, provides up to 5V 100mA power on each output.
- Supports video resolution down-scaling, the 4K input can be automatically downgraded to 1080p output for compatibility with 1080p displays.
- 18Gbps high bandwidth.
- Stereo analog L/R audio output for audio de-embedding from HDMI input.
- Advanced EDID management: multiple preset and user defined allowed.
- CEC and RS232 Control
- Built-in equalizer for signal enhancement to avoid signal attenuation in transmission.

SPECIFICATIONS

Video		Control	
Input	(1) HDMI	Crosstalk isolation	< 0.05dB, 1kHz sine at 0dBFS level (or max level before clipping)
Input Connector	(1) Female type-A HDMI	L-R level deviation	< 0.05dB, 1kHz sine at 0dBFS level (or max level before clipping)
Input Video Resolution	Up to 4K@60Hz 4:4:4 8bit, HDR10, Dolby Vision	Output load capability	1Kohm and higher (supports 10x paralleled 10Kohm loads)
Output	(16) HDMI	Noise Level	- 80dB
HDMI Standard	V2.0	Control	
HDCP Version	2.2	Control Port	(1) EDID Switch, (1) FW, (1) RS232
HDMI Audio Signal	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through.	Control Connector	(1) 4-pin DIP switch, (1) Micro-USB, (1) Female DB9
Analog Audio Output		General	
Output	(1) AUDIO	Bandwidth	18Gbps
Output Connector	(1) RCA (L+R)	Operation Temp.	5°C - +55°C
Frequency Response	20Hz-20kHz, 31dB	Storage Temp.	-25°C - +70°C
Max output level	2.0Vrms 3 0.5dB. 2V=16dB headroom above-10dBV (316mV) nominal consumer line level signal	Relative Humidity	10%-90%
THD+N	< 0.05%, 20Hz-20kHz bandwidth, 1kHz sine at 0dBFS level (or max level)	External Power Supply	Input: AC 100-240V, 50/60Hz; Output: 24V DC 1.25A
SNR	> 80dB, 20Hz-20kHz bandwidth	Power Consumption	26W (Max)
		Dimension (W*H*D)	268mm x 40mm x 125mm
		Net Weight	1.14KG

APPLICATION DIAGRAM

HDMI: 

Audio: 

RS232: 

