

DOLBY DIGITAL DOWN-MIXER

with UHD 4K downscale and HD upscale



KEY FEATURES

- Incline downmix of incoming Dolby Digital to stereo PCM audio over HDMI
- 3.5mm audio breakout
- Downscale 4K/30p > 1080/24p, to enable 1080p screens to view 4K sources through a 4K matrix system
- Upscale 1080/24p > 4K/30p, for connection to 4K screens



Although 4K UltraHD has arrived, not every client will ditch their existing HD screens overnight so the ability to support a combination of 4K and 1080p HD displays within the same distribution is vital, especially when resolution conflicts that effect systems, including screddns of different capabilities, are considered.

The P8-HDMIDAC video scaler and digital audio converter (DAC) is designed to be placed between a display and a source device. It adjusts resolution and audio from an incoming HDMI source and scales the output to a level compatible with display capabilities.

This product is the ideal solution to accomodate both HD and 4K sources and displays within a multi-zone residential or commercial distribution system.

ADDITIONAL FEATURES

- In-line scaling solution for installations which use both 4K and HD displays without compromising source resolution
- Supports resolutions up to 3840x2160p @24/25/30Hz
- Full 3D support up to 1080p/24hz
- Up to 6 channels of input support (up to 5.1 surround) of audio encoded in Dolby Digital
- Low-latency digital filtering
- Accepts uncompressed digital audio input signals
- Includes digital interpolation filter
- Auto-samples at frequencies of 32, 44.1 and 48KHz
- Supports audio signals up to 24bit with sampling rates up to 192KHz
- THD+N (Total harmonic distortion plus noise) rating: a-93db
- Switchable input selection for video/audio scaling or signal pass-through
- Equalizes and boosts HDMI signal for longer distance transmissions
- Compact design
- LED power indication

TECHNICAL DATA

Dimensions (WxHxD):	65mm/2.55" x 23mm/0.9" x 77mm/3.03"
Weight:	105g
Operating Temperature Range:	0 to +35°C (32 to +95°F)
Operating Humidity Range:	5 to 90 % RH (no condensation)
Power Supply:	5v DC / 5W power supply (CE/FCC certified)
Power Consumption:	Max 1Amp @ 5V 5 Watts
Input:	HDMI V1.4a
Max Video Clock Speed:	Input: 300Mhz, Output: 300Mhz
Output:	HDMI V1.4a
Max Video Output Clock Speed:	300Mhz
Video Amplifier Bandwidth:	10.2Gbps
Video Impedance	100Ω
Input Video Signal:	0.5 - 1.2V p-p
Input DDC Signal:	5 volts p-p (TTL)
Maximum Single Link Range:	2160/30 @ 24bit True Color - 1080/24p @ 36bit Deep Color
Transmission Distance:	Input - 7m/22ft (4K), 10m/33ft (1080p), Output - 7m/22ft (4K), 10m/33ft (1080p)
Max In/Out Resolution Supported:	Up to 3840 x 2160p @ 24/25/30Hz
Color Supported:	4K/24bit, 1080p/36bit
3D Supported:	Up to 1080/24p - Frame packing/sequential (Blu-ray), Interlaced stereoscopic (satellite/cable broadcasts)
Scale Video Up from:	1920x1080p @ 24/25/30Hz to 3840x2160p @ 24/25/30Hz
Scale Video Down from:	3840x2160p @24/25/30Hz to 1920x1080p @ 24/25/30Hz
Additional:	HDMI 2.0a 3840 x 2160p 60Hz YCC 4:2:0 format pass-through
Audio Input Format:	5.1 Dolby Digital or 2ch Stereo PCM
Audio Output Format:	Passthrough or 2ch PCM with Downmix selected
ESD Protection:	± 8kV (Air-gap discharge) ± 4 kV (Contact discharge)
Surge Protection:	IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 25A (8/20μs)
Electrical Fast Transient/Burst:	Data communication cord:1 kV Power cord : 2 kV
Certification:	CE, FCC, RoHS, Dolby Digital

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