⊒Ⅲ HDA

GUIDE
Signal Management

HDMI Scaler & Audio Manager
Product code: SIGNALMANAGER

SKU 2.50.795

A versatile HDMI signal management tool offering video downscaling and audio downmixing. Useful in distributed video environments containing a range of differing display resolution capabilities. The downscaling function of the device can be used to always ensure optimal performance of each display. HDMI video scaler: Input supports 18Gbps, 4K, HDR, HDMI 2.0 and HDCP 2.2 content, downscalable to 4K/10G for use on HDMI 1.4 equipment, or 4K/18G to 1080p with matched frame rates. The two HDMI output ports act as follows: HDMI Output 1 = always passes through the unaltered original signal. HDMI Output 2 = can be set to pass through same as HDMI Output 1, or scale down to 4K/1080p @10G and can have downmixed 2ch stereo audio re embedded. Audio connectivity: 5.1 multi channel audio can also be downmixed to 2ch stereo via RCA or TOSLINK optical ports (or re embedded onto HDMI Output 2).

Features

HDMI splitting, scaling and audio management features.
HDMI® 2.0 (a/b) HDCP 2.2 compliant
18Gbps data rate throughout
Supports all resolutions up to and inc. Ultra HD 4K 60 4:4:4
Supports all current High Dynamic Range (HDR) formats
Supports up to Dolby Atmos passthrough and 5.1 downmixing

Specification

Form factor	Lightweight slender aluminium enclosure
Inputs / outputs	1 HDMI to 2 HDMI, 1 L/R RCA, 1 TOSLINK
Transmission tech.	Native HDMI
Video bandwidth	594MHz
ESD protection	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Device / Package weight	125 / 1100 g
Dimensions (W/D/H)	100 / 56 / 16mm
Power	Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Operating 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)
Power consumption	2W
Guarantee	2-year guarantee

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Switcher MAX (4x1)

Product code: SWITCHERMAX41

SKU 2.50.816

The 4x1 Switcher MAX is an Ultra HD Premium™ 4x1 HDMI 2.0 switcher with maximum bandwidth capabilities, the ultimate switch option for cinema purists, it supports the full HDMI 2.0 (a/b) 18Gbps max data rate, capable of carrying the most premium UHD/4K 60 4:4:4 content, with all HDR formats (10 & 12-bit), Dolby Vision®, HDR10+ and HLG.

Features

HDMI® 2.0 (a/b) HDCP 2.2 compliant
18Gbps data rate throughout
Supports all resolutions up to and inc. Ultra HD 4K 60 4:4:4
Supports all current High Dynamic Range (HDR) formats
Supports all current audio formats up to Dolby Atmos® and DTS:X®
Built-in equalizer and re-timer

Specification

Form factor	Lightweight slender aluminium enclosure
Inputs / outputs	4 HDMI / 1 HDMI
Transmission tech	Native HDMI
Video bandwidth	18GBPS
ESD protection	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Device / Package weight	195g
TX/RX Dimensions (W/D/H)	120.97 / 79.17 / 16mm
Power supply output	DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Operating 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)
Power consumption	1 W
Guarantee	2-year guarantee

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HDMI Splitter MAX (1x2)
Product code: SPLITTERMAX12

SKU 2.50.793

The 1x2 Splitter MAX is an Ultra HD Premium™ 1x2 HDMI 2.0 splitter with maximum bandwidth capabilities, the ultimate splitter option for cinema purists, it supports the full HDMI 2.0 (a/b) 18Gbps max data rate, capable of carrying the most premium UHD/4K 60 4:4:4 content, with all HDR formats (10 & 12-bit), Dolby Vision®, HDR10+ and HLG.

Features

HDMI® 2.0 (a/b) HDCP 2.2 compliant
18Gbps data rate throughout
Advanced EDID management
Supports all resolutions up to and inc. Ultra HD 4K 60 4:4:4
Supports all current High Dynamic Range (HDR) formats
Supports all current audio formats up to Dolby Atmos® and DTS:X®
Built-in equalizer and re-timer

Specification

Form factor	Lightweight slender aluminium enclosure
Inputs / outputs	1 HDMI / 2 HDMI
Transmission tech.	Native HDMI
Video bandwidth	594MHz
ESD protection	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Device / Package weight	165g
Dimensions (W/D/H)	100 / 56 / 16mm
Power	Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Operating 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)
Power consumption	2 W
Guarantee	2-year guarantee

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HDMI Splitter MAX (1x4)

Product code: SPLITTERMAX14

SKU 2.50.794

The 1x4 Splitter MAX is an Ultra HD Premium™ 1x4 HDMI 2.0 splitter with maximum bandwidth capabilities, the ultimate splitter option for cinema purists, it supports the full HDMI 2.0 (a/b) 18Gbps max data rate, capable of carrying the most premium UHD/4K 60 4:4:4 content, with all HDR formats (10 & 12-bit), Dolby Vision®, HDR10+ and HLG.

Features

HDMI® 2.0 (a/b) HDCP 2.2 compliant
18Gbps data rate throughout
Advanced EDID management
Supports all resolutions up to and inc. Ultra HD 4K 60 4:4:4
Supports all current High Dynamic Range (HDR) formats
Supports all current audio formats up to Dolby Atmos® and DTS:X®
Built-in equaliser and re-timer

Specification

Form factor	Lightweight slender aluminium enclosure
Inputs / outputs	1 HDMI / 4 HDMI
Transmission tech.	Native HDMI
Video bandwidth	594MHz
ESD protection	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Device / Package weight	165g
Dimensions (W/D/H)	163 / 63 / 16mm
Power	Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Operating 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)
Power consumption	2 W
Guarantee	2-year guarantee

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ADC - Analog to Digital Converter

SKU: 2.50.797

The ADC is a small and simple device that converts 2-channel analog stereo RCA L/R audio to an LPCM digital audio output, on either an S/PDIF optical TOSLINK or coaxial RCA connection.

The ADC enables utilisation of audio devices that don't incorporate a digital audio output with the MHUB AUDIO, via it's two digital auxiliary inputs.

Features

Plug and play device
Analog to Digital Converter
Analog stereo RCA L/R audio input
S/PDIF optical TOSLINK or coaxial RCA output
Supports uncompressed 2-channel LPCM digital audio output
Supports sampling rate at 32, 44.1, 48 and 96 KHz
Provides electromagnetic noise free transmission
2-year guarantee
UK / EU / AU / US multi-territory adapters included

Specification

Form factor	Compact metal enclosure
Inputs / outputs	R/L RCA to TOSLINK and COAX
Transmission	LPCM
Sample rate	32, 44.1, 48 and 96 KHz
ESD protection	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Operating temperature	32°F to 104°F (0°C to 40°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Relative humidity	10~85% RH (non-condensing)
Power consumption	0.5W
Power supply	DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Device weight	65g
Package weight	195g
Dimensions (W/D/H)	50 x 40 x 26 mm
Guarantee	2-year guarantee

DAC - Digital to Analog Converter

SKU: 2.50.796

The DAC is a small and simple device that converts a digital audio input via S/PDIF optical TOSLINK or coaxial RCA connection to 2-channel analog stereo RCA L/R audio.

The DAC enables utilisation of audio devices that incorporate a digital audio output with the MHUB AUDIO, via its four stereo analog inputs.

Features

Plug and play device
Digital to Analog Converter
S/PDIF optical TOSLINK or coaxial RCA inputs
Analog stereo RCA L/R audio output
Supports sampling rate at 32, 44.1, 48 and 96 KHz
Provides electromagnetic noise free transmission
2-year guarantee
UK / EU / AU / US multi-territory adapters included

Specification

Form factor	Compact metal enclosure
Inputs / outputs	TOSLINK and COAX to R/L RCA
Transmission	LPCM
Sample rate	32, 44.1, 48 and 96 KHz
ESD protection	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Operating temperature	32°F to 104°F (0°C to 40°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Relative humidity	10~85% RH (non-condensing)
Power consumption	0.5W
Power supply	DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Device weight	65g
Package weight	195g
Dimensions (W/D/H)	50 x 40 x 26 mm
Guarantee	2-year guarantee

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