

ENGINEERING FOR QUALITY

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The HDMI 2.0 6x1 Presentation Switcher. The switcher allows selection of six different sources (three HDMI inputs, one USB-C input, one DisplayPort input and one VGA input), and will switch the selected video to HDMI output. It supports video resolution up to 4Kx2K@60Hz 4:4:4 8bit, 1080P, and 3D. In addition, there is the smart built-in EDID setting can be selected by the 4-pin DIP switch on the rear panel.

The switcher supports stereo and multichannel audio on the HDMI inputs.

In addition to the audio embedded in the HDMI output stream, the audio is simultaneously de-embedded to an optical digital audio output and a balanced analog audio output.

AV PROCESSOR

SW311A-4K

HDMI 2.0 Switcher
with Audio Extraction



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SW311A-4K

HDMI 2.0 Switcher with Audio Extraction



MAIN FEATURES

- Supports HDMI 2.0 (up to 4K@60Hz 4:4:4 8bit)
- 18Gbps high bandwidth and supports HDR 10.
- HDCP 2.3 compliant.
- Supports automatic switching.
- CEC control for display volume and ON/OFF.
- Controllable via RS232 and IR.
- VGA resolution is selectable on the front panel.
- Optical and balanced analog audio for de-embedding.
- Smart EDID management.

SPECIFICATION

Video	
Input	(2) HDMI/MHL, (1) HDMI, (1) USB-C, (1) DP, (1) VGA
Input Connector	(3) Type-A female HDMI, (1) Type-C USB 3.0, (1) DisplayPort, (1) 15-pin female VGA
HDMI Input Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
MHL Input Resolution	Up to 1080P@60Hz
USB-C Input Resolution	Up to 4Kx2K@30Hz
DP Input Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
VGA Input Resolution	Up to 1920x1200@50/60Hz
Output	(1) HDMI
Output Connector	(1) Type-A female HDMI
Output Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
HDMI Version	2.0
HDCP Version	2.3
MHL Version	2.2
DP Version	1.2
HDR 10	Supported
CEC	Supported
HPD	Supported

SPECIFICATION (Cont.)



Audio	
Output	(1) OPTICAL, (1) Stereo balanced L/R
Output connector	(1) Toslink connector, (1) 5-pin terminal block
HDMI Audio Format	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS: X™, and DTS-HD® Master Audio™ pass-through.
DP Audio Format	8 channels LPCM, up to 24bit 192Khz, AC3, DTS
Stereo analog L/R audio Format	PCM
Toslink Digital Audio Format	PCM, Dolby Digital, DTS, DTS-HD
Max Output Level	2.0Vrms ± 0.5dB. 2V = 16dB headroom above -10dBV (316mV) nominal consumer line level signal
THD+N	<0.05% (-80dB), 20Hz ~ 20KHz bandwidth, 1KHz sine at 0dBFS level (or max level)
SNR	>80dB, 20Hz ~ 20KHz bandwidth
Crosstalk Isolation	>70dB, 10KHz sine at 0dBFS level (or max level before clipping)
L-R Level Deviation	< 0.3dB, 1KHz sine at 0dBFS level (or max level before clipping)
Frequency Response Deviation	<±0.5dB 20Hz ~ 20KHz
Output Load Capability	1KΩ and higher (supports 10x paralleled 10KΩ loads)
Stereo Channel Separation	>70dB@1KHz
Control Part	
Control	(1) FW, (1) EDID, (1) IR IN, (1) RS232, (1) TCP/IP
Control Connector	(1) Micro-USB, (1) 4-pin DIP switch, (1) 3.5mm mini jack, (1) 3-pin terminal block, (1) RJ45



SPECIFICATION (Cont.)



General	
HDMI 2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 10m, 1080P ≤ 15m
Bandwidth	18Gbps
Operation Temperature	-10 ~ +55°C
Storage Temperature	-25 ~ +70°C
Relative Humidity	10% - 90%
External Power Supply	Input: AC 100~240V, 50/60Hz, Output: 12V DC 2A
Maximum Power Consumption	10W
Dimension (W*H*D)	342.5mm x 26mm x 115mm
Net Weight	620kg

