

2-Channel HDMI Splitter with Analog and Optical Audio Output and 4K Support



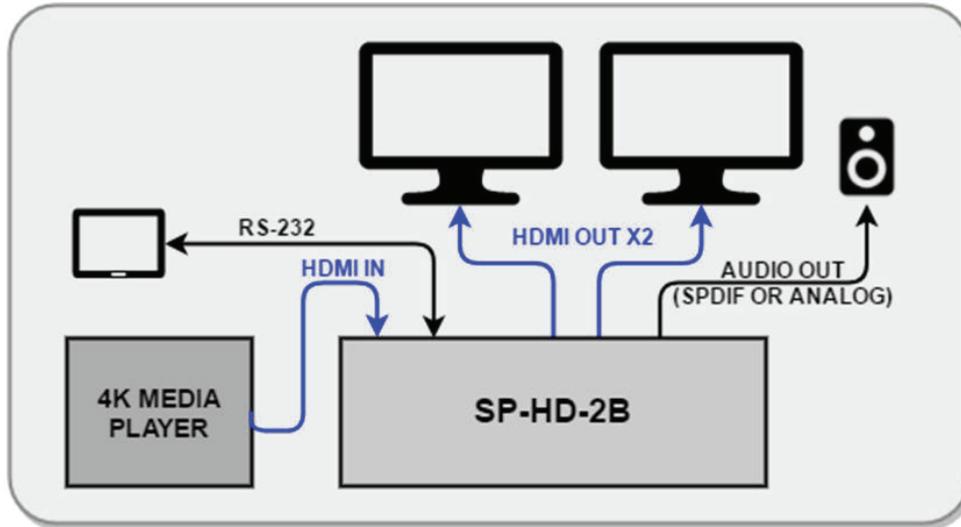
- 18 Gbps bandwidth to support up to 4Kx2K 4:4:4
- 4K to 1080p downscaling for each Output
- Easy installation with smart EDID management and RS232 control
- Extracts Analog and Digital (TOSLINK) Audio
- HDCP 2.2 compliant

The SP-HD-2B is a compact 2-port HDMI 2.0 splitter that can produce two identical outputs from a single HDMI or DVI source for display on two displays. It supports PC and HD resolutions from 480p up to UHD – 4K @60Hz 4:4:4. It is HDCP 2.2 compliant, and supports deep color, 3D, and HDMI audio formats including LPCM 7.1, Dolby TrueHD, and DTS-HD Master Audio. Each HDMI output can be independently downscaled from 4K to 1080p if needed.

The SP-HD-2B also extracts audio from the HDMI source and outputs it as analog (L/R) stereo and digital optical TOSLINK for connection to an audio amplifier or other device. If no display is connected, the SP-HD-2B will emulate a display using an internal EDID, so the source will still output HDMI video, and the splitter will still be able to extract the audio signal.

RS-232 is available for basic configuration and control, if needed. For convenience, a pair of mounting brackets and hardware is included for installation either under-desk or surface-mount.

Block Diagram



Specifications

Video Standards	HDMI 2.0 video specifications including 12 bit color depth, 3D video, and 4K/60 DVI (single link) HDCP 2.2
Connectors	HDMI (1x INPUT, 2x OUTPUT)
Bandwidth	18 Gbps total
Resolutions	HDTV signal 480i through 4K/60 4:4:4 DVI signal - VGA (640x480) thru WUXGA (1920x1200)
Audio	All HDMI Embedded audio including: LPCM 7.1, Dolby TrueHD, and DTS-HD Master Audio (32-192 kHz sample rate)
Connectors	3.5mm Stereo Analog
Optical	S/PDIF Digital (TOSLINK)
Other Signals	(1) RX, TX and GND on Terminal Strip RS-232 Baud Rate: 115200, N, 8, 1 USB-Mini for FW Update
Power	100 VAC to 240 VAC, 47-63 Hz, External; 5 VDC with universal blades 5VDC, 1.0 A Power Supply 2.2 Watts
Temp/Humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing
Cooling	Convection
Enclosure Type	Metal (Steel)
Dimensions	1.10" H x 5.35" W x 2.85" D (27.9mm H x 135.9mm W x 72.4mm D)
Product weight	Splitter alone: 1.0 lb Package (shipping): 2.0 lb Vibration ISTA 1A in carton (International Safe Transit Association)
Safety	CE
EMI/EMC	CE, FCC Class A
MTBF	90,000 hours (Calculated Estimate)
Warranty	3 years parts and labor