The Atlona **JunoX™ 451 (AT-JUNO-451)** is a 4x1 HDMI switcher for high dynamic range (HDR) formats. It is HDCP 2.2 compliant and supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. The JunoX 451 is ideal for residential applications with the latest as well as emerging 4K/UHD and HDR sources and displays. It is compatible with all video resolutions, audio formats, and color space formats supported in the HDMI 2.0a specification, plus the ability to pass metadata for HDR content. The JunoX 451 includes EDID management features and automatic input switching. It also supports the HDMI Audio Return Channel for receiving digital audio from a television, and includes a TOSLINK digital audio output for sending this audio an AV receiver or soundbar. This JunoX Series HDMI switcher can be controlled via Ethernet, RS-232, and IR. A handheld IR remote control is included.

The JunoX 451 is designed to deliver dependable, pristine-quality image presentations in residential as well as commercial applications. It includes Atlona's award-winning 10 year limited product warranty and customer support services, so that integrators can specify, purchase, and install with confidence.

4x1 HDMI switcher -
- Delivers high performance, reliable HDMI signal switching
- Easy to install and deploy in residential and commercial applications

4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR format -
- Compatibility with new and emerging 4K/UHD and HDR-capable sources and displays
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0a specification

HDCP 2.2 compliant -
- Adheres to latest specification for High-bandwidth Digital Content Protection
- Allows protected content stream to pass between devices

Automatic input selection using hot plug detect and video detection technology -
- Selects active input when sources are connected or if there is a change in source power status
- Enables simplified, automatic system operation with no user intervention necessary

EDID management -
- Manages EDID communications with the source through a display's EDID or internally stored EDID
- Ensures desired audio formats and video resolutions are provided to the AV system

Delivers return audio from a TV to an optical digital audio output -
- Supports the HDMI Audio Return Channel and provides a return audio pathway from a television to an AV receiver or soundbar over the TOSLINK digital audio output
- Easy and convenient integration of television audio for over-the-air broadcasts, smart TV apps, and more

TCP/IP, RS-232, and IR control -
- Flexible control options for compatibility with third-party control system
- Reduces integration time and costs. Includes a convenient handheld IR remote control

Front panel input selection status LEDs -
- LED indicators provide HDMI input selection status information
- Provides easy setup and troubleshooting

Specifications

Video Resolutions

Video	4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz (UHD), 2048x1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i
VESA	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1152x768, 1024x768, 800x600, 640x480
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit

Audio

HDMI	LPCM 2.0, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™, Dolby Atmos®, DTS:X™
TOSLINK	LPCM 2.0, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Bit Rate	up to 24-bit

Distance

HDMI IN/OUT @ 4K	up to 5 m	up to 15 ft
HDMI IN/OUT @ 1080p	up to 10 m	up to 30 ft

Signal

Bandwidth	18 Gbps
CEC	Compliant
HDCP	2.2 compliant

Temperature

Operating	0 °C to 50 °C	32 °F to 122 °F
Storage	-20 °C to 60 °C	-4 °F to 140 °F
Humidity	20 to 90% non-condensing	

Power

Consumption	6.6 W
Idle	5.9 W
Supply	Input: AC100-240V ~ 50/60Hz
	Output: DC 5V

Dimension

H x W x D	26 x 219 x 152 (mm)	1.0 x 8.6 x 5.9 (inch)
Rack Size	1/2 Rack 1RU	

Weight

Device	0.82 kg	1.8 lbs

Certification

Unit	CE, FCC
Power Supply	CE, FCC, Level VI, RoHS, cULus, RCM, CCC
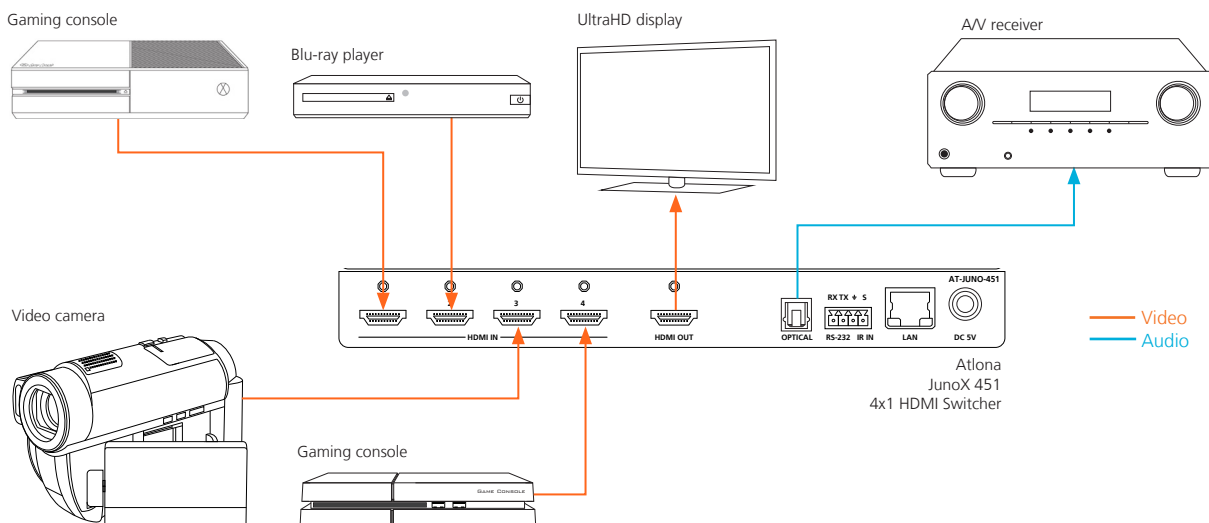
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