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, 1080@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: AC 100-240V ~ 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

---

**Diagram**

![Diagram showing connections between gaming console, Blu-ray player, UltraHD display, AV receiver, and JunoX 451](image)

---

Specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here. Not responsible for typographical errors.