4K/UHD 5 Input HDMI Switcher

AT-UHD-SW-51

The Atlona AT-UHD-SW-51 is a 5x1 HDMI switcher with auto-switching and advanced control capability. The switcher supports 4K/UHD @ 60 Hz, 4:2:0; offers 3D pass-through, and 10.2 Gbps bandwidth. With front panel buttons and IR control, it can be a standalone switcher. Designed as a cost-effective, easy to install solution, the switcher offers a web-based GUI for easy set-up and management of EDID and HDCP. Additional control options include auto-switching, front panel selector, and compatibility with RS-232 or TCP/IP-based control systems. Audio features include de-embedding of PCM audio over HDMI to either S/PDIF or two-channel analog audio outputs; pass-through of Dolby TrueHD® and DTS-HD Master Audio™; plus an Audio Return Channel feed to the S/PDIF output from the HDMI display. The compact, 1U, half-rack width enclosure is easily installed in rack mounted systems with the 19" rack-mount brackets. Two units can be mounted side-by-side.

The AT-UHD-SW 51 adds 4K/UHD performance to Atlona's HDMI small switcher family to meet the needs of displays and sources with resolutions beyond 1080p. In addition, the switcher offers advanced audio features. Auto-switch, the additional TCP/IP control flexibility, and overall control system neutrality give integrators a significant time savings during installation.

4K/UHD capability -

- Compatible with Ultra High Definition sources and displays
- Supports high-resolution applications such as CAD, desktop publishing, and detailed financial reporting

Auto-switching -

- Reduces complexity or eliminates control system completely
- Simplifies user operation

TCP/IP, RS-232, and IR control -

- Flexible control options compatible with 3rd-party control systems
- Reduces integration time and costs

EDID management -

- Manages EDID communications between source and display; allows integrators to force sources to preferred resolution
- Ensures desired audio formats and video resolutions are provided to the AV system; eliminates the need for EDID management device

HDCP Management -

- Allows non-protected material from PCs to pass to non-compliant displays and teleconference systems while protected content is not transmitted
- HDCP compliance can be switched on/off from control systems for use with non-compliant displays, streaming devices, and codecs

Easy, GUI-based configuration using integrated web server -

- Offers menu-based configuration of network settings, RS-232 settings, input switching, EDID, and HDCP management and audio
- Allows fast configuration of internal product settings and troubleshooting from a tablet, smart phone, or PC in the field

Rack mountable 1U, half rack width enclosure -

- Installs easily in rack-mounted systems with 19" rack-mount brackets
- Simplifies installations; allows two units to be mounted together

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Specifications

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, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 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

Formats - HDMI IN/OUT	PCM 2 Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio
Formats - S/PDIF	PCM 2 Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus,
Format - L/R	maximum analog output: balanced +5dBu @ 0dBfs, 2Ch PCM only
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

Distance (per port)

HDMI @ 1080p	10 meters	30 feet
HDMI @ 4K	5 meters	15 feet

Signal

Bandwidth	10.2 Gbps
CEC	Pass through
HDCP	Switchable - Complaint / Non-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	5.94W
Idle Consumption	1.57W
Supply	Input: AC100~240V 50/60Hz Output: DC 5V/3.6A

Dimension

H x W x D	44 x 222.25 x 261 (mm)	1.73 x 8.75 x 10.28 (inch)
Rack Unit	1/2 rack, 1RU	

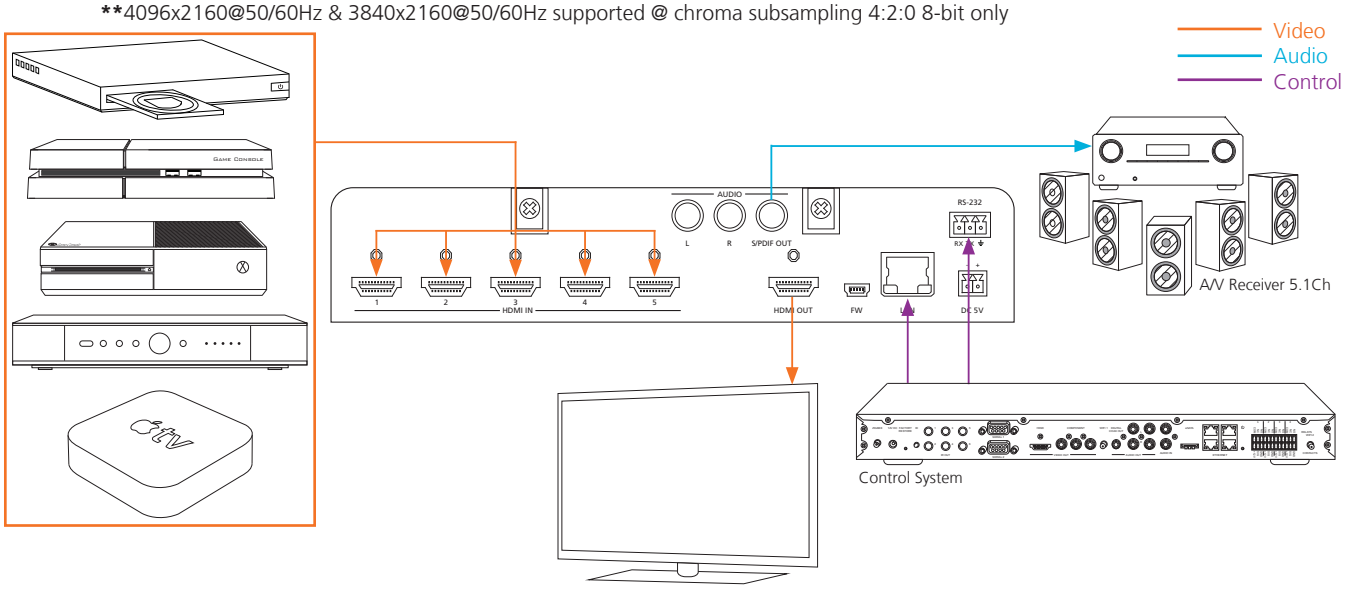
Weight

Device	3.10 kg	1.40 lbs

Certification

Power Supply	CE, FCC, cULus, RCM
Product	CE, FCC

**4096x2160@50/60Hz & 3840x2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only



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.

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