

The Atlona AT-UHD-PRO3-1616M is a **dual-distance** 16x16 HDMI to HDBaseT™ matrix switcher for 4K/UHD @ 60Hz video signals with Power over Ethernet for receivers and analog audio breakout. The matrix provides both extended distance, 328 foot (100 meter) and long distance, 230 foot (70 meter) HDBaseT transmission over category cable. It also provides convenient bidirectional extension of both RS-232 and IR Control. Four HDMI outputs are provided as mirrored outputs designed for routing HDMI-based audio to an AVR or as additional matrix outputs. The matrix switcher is HDCP 2.2 compliant and supports EDID communication. The matrix is control system-friendly and integrates with any TCP/IP, RS-232, or IR based control signals. Designed for multi-zone residential or commercial distribution applications, the AT-UHD-PRO3-1616M features a 2U, rack-mountable enclosure with an internal, international power supply.

The matrix switcher provides advanced capabilities for AV signal distribution and a host of integrator-friendly features. It supports 4K/UHD @ 60 Hz, 4:2:0, 8-bit video signals; offers 3D pass-through and meets HDCP 2.2 copy protection standards. Remote power for compatible Atlona UHD-EX Series HDBaseT receivers is provided using industry standard IEEE 802.3af PoE supplied over HDBaseT links. Professional audio capabilities include analog audio de-embedding with volume, mute, and 5-band EQ for the 12 line level outputs on captive screw connectors. The matrix supports digital audio signals up to 192 kHz/24-bits. Flexible control capability is provided by the supplied IR remote, front panel control, GUI-based integrated web server as well as compatibility with TCP/IP, RS-232, or IR-based control system.

16 HDBaseT outputs with dual-distance transmission 4K/UHD capability with HDCP 2.2 copy protection - of A/V, control and power signals over a single category cable -

- Eight extended distance, 328 foot (100 meter) outputs and Eight long distance, 230 foot (70 meter) outputs offer bidirectional extension of both RS-232 and IR control plus remote power

Compatible receivers:

- AT-UHD-EX-100CE-RX (100 meter with control)*
- AT-UHD-EX-70C-RX (70 meter with control)*

- Ensures distance and value requirements are addressed to meet the needs of the installation and budget

Four HDMI outputs with independently selectable mirror and matrix modes -

- Switchable HDMI outputs can mirror any HDBaseT output for routing HDMI-based audio signals to AVRs; in matrix mode, the HDMI outputs can become additional matrix outputs
- Provides output flexibility to facilitate a variety of output needs and destinations

Power over Ethernet for remote-powered receivers -

- Compatible with ultra-high definition PCs and other sources and displays and adheres to latest content protection specification
- Future proofs AV systems in preparation for technology improvements, 4K/UHD streaming services and playback devices

Audio de-embedding -

- Industry standard IEEE 802.3af PoE supplied by the matrix over HDBaseT
- No local AC outlet required; saves time and integration costs

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

- Stereo, line level audio breakout with volume, mute, and 5-band EQ on captive screw connectors for 12 output zones
- Provides audio signal routing to sound system
- Flexible control options compatible with all 3rd-party control systems
- Reduces integration time and costs

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, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x768, 1024x768, 800x600, 640x480 | |
| Colorspace | YUV, RGB | |
| Chroma Subsampling | 4:4:4, 4:2:2, 4:2:0 | |
| Color depth | 8-bit, 10-bit, 12-bit | |

Audio

| | | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|--|
| Analog Output | PCM 2Ch (de-embedded) | |
| HDMI/HDBaseT Output | PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos | |
| Sample Rate | 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz | |
| Bit rate | up to 24-bit | |

Distance

| | | |
|-----------------------------|-----------------|----------------|
| Ports 1-8: CAT5e/6 @ 4K | up to 70M | up to 230 ft |
| Ports 1-8: CAT6a/7 @ 4K | up to 100M | up to 328 ft |
| Ports 1-8: CAT5e/6 @ 1080p | up to 100M | up to 328 ft |
| Ports 9-16: CAT5e/6 @ 4K | up to 35 meters | up to 115 feet |
| Ports 9-16: CAT6a/7 @ 4K | up to 40 meters | up to 130 feet |
| Ports 9-16: CAT5e/6 @ 1080p | up to 60 meters | up to 197 feet |
| Ports 9-16: CAT6a/7 @ 1080p | up to 70 meters | up to 230 feet |
| HDMI IN/OUT @ 4K | up to 5 meters | up to 15 feet |
| HDMI IN/OUT @ 1080p | up to 10 meters | up to 30 feet |

Signal

| | |
|-----------|-----------|
| Bandwidth | 10.2 Gbps |
| CEC | No |
| HDCP | 2.2 |

Temperature

| | | |
|-----------|--------------------------|----------------|
| Operating | 0°C to 40°C | 32°F to 104°F |
| Storage | -40°C to 70°C | -40°F to 158°F |
| Humidity | 20 to 90% non-condensing | |

Power

| | |
|------------------|---------------------|
| Consumption | 350W |
| Idle Consumption | 250W |
| Supply | AC 100~240V 50/60Hz |

Dimension

| | | |
|-----------------------|------------------------------|-----------------------------|
| H x W x D w/feet | 99.02 x 439.74 x 301.63 (mm) | 3.90 x 17.31 x 11.88 (inch) |
| H x W x D w/rack ears | 88.63 x 482.60 x 301.63 (mm) | 3.49 x 19.00 x 11.88 (inch) |
| Rack Unit | 2U | |

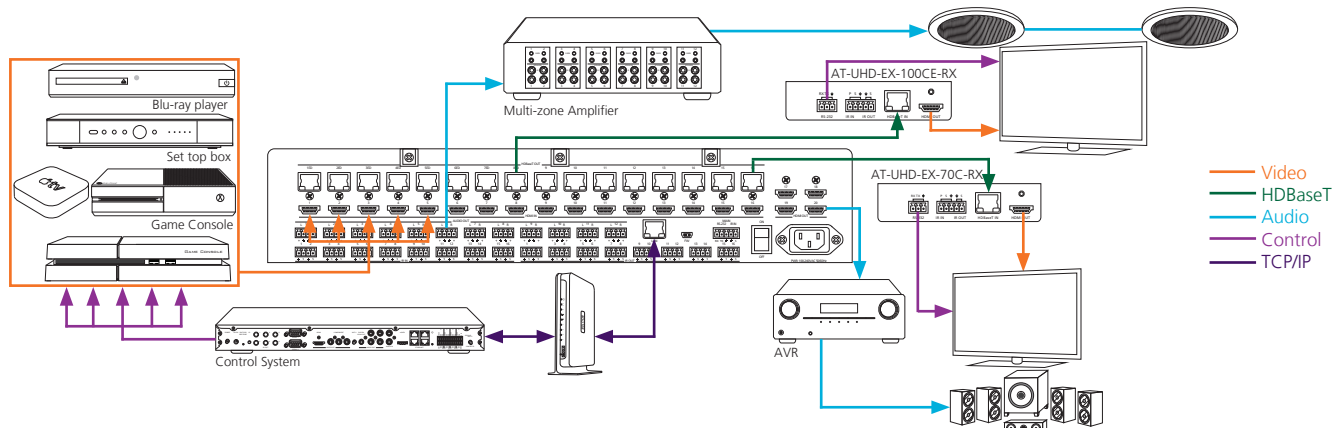
Weight

| | | |
|--------|---------|-----------|
| Device | 6.21 kg | 13.70 lbs |
|--------|---------|-----------|

Certification

| | |
|---------|-------------------------|
| Product | CE, FCC, RoHS, RCM, TUV |
|---------|-------------------------|

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



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