



The Atlona **Etude™ Sync (AT-ETU-SYNC)** provides EDID emulation and Hot Plug Detect communication between HDMI® sink and source devices. It detects and corrects for signal integrity issues associated with cabling or connections, and can resolve compatibility problems between a source and sink. The Etude Sync is compatible with high dynamic range (HDR) formats and is HDCP 2.2 compliant. It supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. In addition to addressing HDMI signal and device-related issues, the Etude Sync reports HDCP compliance at the source and destination, and can manage EDID communication with the source. This device is ideal for AV system troubleshooting as well as ensuring reliable, consistent performance.

#### EDID emulation and management for HDMI signals -

- Provides EDID to the HDMI source device from the display or the Etude Sync's internal memory
- Ensures desired audio formats and video resolutions are provided to the AV system

#### Hot Plug Detect emulation for HDMI source and sink communications -

- Restores +5 volt and HPD signals lost due to faulty or long cables, or when signals are passed through multiple distribution devices
- Enables the essential signal handshaking necessary for the source to deliver video content

#### Detects and resolves issues associated with signal handshaking between source and destination devices -

- Ideal for troubleshooting performance or reliability issues related to cabling, terminations, source and display compatibility, and other factors
- Quickly and easily installs into AV systems to address HDMI signaling or EDID problems and ensure dependable operation

#### 4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR formats -

- 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

#### Provides HDMI signal regeneration for legacy source devices -

- Allows HDMI 1.2 sources such as cable television set-top boxes to be used in newer systems
- Addresses the lack of support for the HDMI 1.3 clock stretching protocol required in HDBaseT extenders

#### Front panel power and signal status LEDs -

- LED indicators provide power and signal status information for +5 volt source supply, hot plug detect, and HDCP
- Quick and easy identification of connection or signal integrity problems, as well as HDCP compliance at source and destination

#### USB-powered with the included power supply or local device -

- Flexible options available for installing the Etude Sync in the field
- For testing or troubleshooting, device can conveniently be powered by a laptop or any available USB port nearby

## Specifications

### Video Resolutions

Video 4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, 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 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 Output PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS 5.1, DTS-HD Master Audio, DTS:X, Dolby Atmos  
Sample Rate 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz  
Bit Rate up to 24-bit

### Distance

HDMI UHD@60Hz	up to 2 meters	up to 6 feet
HDMI UHD@24Hz	up to 5 meters	up to 16 feet
HDMI 1080p@60Hz	up to 10 meters	up to 30 feet
HDMI 1080p@24Hz	up to 15 meters	up to 50 feet

### Signal

Bandwidth 18 Gbps  
CEC No  
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 6.5 W  
Supply Input: AC 100~240 VAC 50/60Hz  
Output: DC 5V 1A

### Dimension

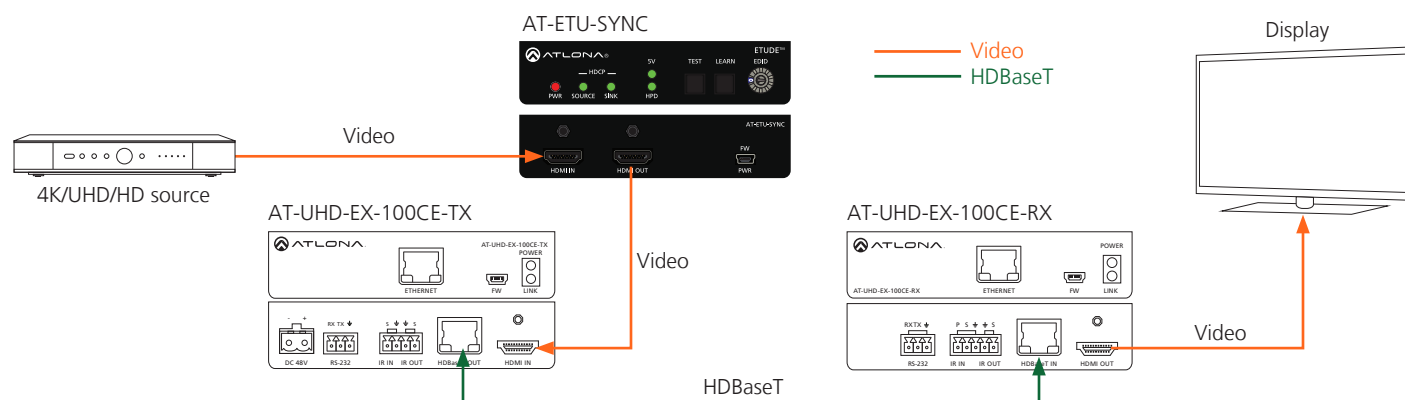
H x W x D	26 x 109 x 89 (mm)	1.02 x 4.29 x 3.50 (inch)
H x W x D w/feet	26 x 109 x 95 (mm)	1.02 x 4.29 x 3.74 (inch)

### Weight

Unit	0.27 kg	0.6 lbs
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### Certification

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



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