



Introduction

The Atlona AT-OPUS-46M, AT-OPUS-68M, and AT-OPUS-810M are part of the Opus™ Series of HDMI® to HDBaseT™ matrix switchers for high dynamic range (HDR) formats. These 4x6, 6x8, and 8x10 matrix switchers are HDCP 2.2 compliant and support 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. The Opus Series enables flexible routing to HDBaseT outputs plus two additional HDMI outputs, and is compatible with the Atlona AT-OPUS-RX receiver or AT-JUNO-451-HDBT switcher for transmission of HDMI, Ethernet pass-through, and bidirectional IR and RS-232 control signals up to 330 feet (100 meters) over CAT6a/7 cable. Visually lossless VESA Display Stream Compression (DSC) enables HDR and 4K/60 4:4:4 signal extension over HDBaseT with no latency. Opus matrix switchers are equipped with a comprehensive host of audio and control system integration features, making them ideal for a wide range of residential and commercial applications requiring multi-zone AV distribution.

Key Features

HDBaseT outputs for transmission of HDMI, Ethernet, power, and control up to 330 feet (100 meters)

- Extends HDMI up to 330 feet (100 meters) @ 4K HDR using CAT6a/7 cable. Bidirectional extension of RS-232, IR, and Ethernet control signals.
- Delivers 4K HDR extension to AT-OPUS-RX receivers, or AT-JUNO-451-HDBT switchers with HDBaseT input.

Two HDMI outputs

- Opus Series matrix switchers include two 4K HDR HDMI outputs.
- Provides additional flexibility to facilitate a variety of output needs and destinations.

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

- Ideal for new and emerging 4K/UHD and HDR-capable sources and displays. Supports HDR10 @ 60 Hz and Dolby Vision @ 30 Hz, as well as HLG.
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0b specification.

Visually lossless VESA Display Stream Compression

- Enables HDBaseT transmission of HDMI up to 18 Gbps using extremely light video compression.
- Innovative signal extension solution delivers very high, pristine image quality.

Flexible, independent audio matrix switcher

- Provides audio matrix routing for the analog audio outputs from any of the source HDMI audio inputs, TOSLINK inputs, analog audio inputs, and the return audio from any television over HDBaseT.
- Simultaneous TOSLINK and analog stereo outputs provided for each HDBaseT and HDMI output. Flexible options for integrating with whole-house audio systems.

Comprehensive IR control management for sources and displays

- Direct interfacing of IR from a control processor to each HDBaseT output.
- Opus Series also allows remote IR control of source devices from OPUS-RX locations.

Specifications

Ports	
HDMI IN/OUT	Type A, 19-pin female, locking
HDBaseT OUT	RJ45
AUDIO IN/OUT	Unbalanced, 3-pin captive screw
LAN	RJ45
DEBUG	Mini-USB
RS-232	3-pin captive screw
IR IN/OUT	2-pin captive screw
TOSLINK IN/OUT	S/PDIF, Optical fiber connector

Video	
UHD/HD/SD	4096×2160@24/25/30/50/60Hz, 3840×2160@24/25/30/50/60Hz, 2048×1080p, 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	2560×2048, 2560×1600, 2048×1536, 1920×1200, 1680×1050, 1600×1200, 1600×900, 1440×900, 1400×1050, 1366×768, 1360×768, 1280×1024, 1280×800, 1280×768, 1152×768, 1024×768, 800×600
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDR	HDR10 & HLG @ 60Hz and Dolby® Vision™ @ 30Hz

Audio	
HDMI IN / OUT	PCM 2Ch, 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	PCM 2Ch, Dolby® Digital, DTS® 5.1
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Bit Rate	24-bit (max.)

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
	HDMI	15	5	30
CAT5e/6	295	90	330	100
CAT-6a / CAT-7	330	100	330	100

Signal	
Bandwidth	18 Gbps
HDMI	2.0
CEC	On output, by trigger
HDCP	up to 2.2

Temperature	Fahrenheit	Celsius
Operating	32 to 104	0 to 40
Storage	-40 to 158	-40 to 70
Humidity (RH)	20% to 90%, non-condensing	

Power	
Consumption	160 W
Idle Consumption	115 W
Supply	Internal, AC 100-240V 50/60Hz

Dimensions	Inches	Milimeters
H x W x D	3.47 x 17.24 x 11.79	88.1 x 438 x 299.5
H x W x D (w/feet)	3.89 x 17.24 x 11.79	98.8 x 438 x 299.5
Rack Size	2U	

Weight	Pounds	Kilograms
Device	11.91 lbs	5.4 kg

Certification	
Unit	CE, FCC
Power Supply	CE, FCC, UL, TUV, RoHS