



Introduction

The Atлона **AT-HDVS-200-TX** is a 3×1 switcher with display control for HDMI and VGA transmission over Ethernet-enabled HDBaseT™. It features two HDMI inputs and a VGA input with 3.5mm audio connector. The AT-HDVS-200-TX combines the benefits of a switcher with built-in auto-switching and the advantages of extended-distance HDBaseT signal transmission over a single cable. HDMI signals up to 4K/UHD @ 60Hz with embedded audio, VGA input signals up to 1920x1200, and control signals can be extended up to 330 feet (100 meters). The switcher enables automatic display on/off, auto-switching, third-party control, plus other control features. The switcher receives power from the AT-HDVS-200-RX scaler receiver via Power over Ethernet and together they create a standalone AV switching system with scaling for classrooms and huddle rooms. HDVS-200 series devices are also useful as components in larger systems utilizing switchers such as the AT-UHD-CLSO-824 matrix switcher where they are used as input/output modules. Button pushes are transmitted via IP to any IP based control system or IP controllable device. When used with the AT-HDVS-200-RX, IP commands are converted to RS-232 or CEC commands for use with most displays.

The Atлона **AT-HDVS-200-TX-PSK** is identical to the AT-HDVS-200-TX, with the addition of an external power supply. This makes it ideal for extending AV and control directly to a projector with an HDBaseT input. The AT-HDVS-200-TX-PSK can serve as the central component of a small, automated AV system through automatic input selection, and by sending RS-232 or Ethernet control commands to the projector. With automatic display control capability, the AT-HDVS-200-TX-PSK can power the projector on or off whenever a source is connected or disconnected from the unit.

Applications

- Simple yet complete AV systems with HDBaseT-equipped projectors and flat-panel displays.
- Installations in which HDVS-200 Series transmitters are to be used with third-party HDBaseT devices.

Key Features

3x1 HDBaseT switcher

- Features two HDMI inputs plus a VGA input with 3.5mm audio connector.⁽¹⁾
- Allows advanced HDMI display devices to be used with legacy VGA sources.

Ethernet enabled, HDBaseT extension

- Transmits IP and HDMI signals up to 330 feet (100 meters) @ 1080p and 330 feet (100 meters) @ 4K/UHD⁽²⁾ using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

Auto-switching

- Selects active input when sources are connected or if there is a change in source power status.
- Eliminates need for complex control system in small AV systems.

TCP/IP and RS-232 control

- Flexible control options for compatibility with third-party control systems. RS-232 controlled from HDBaseT connection.
- Reduces integration time and costs.

Front panel Input Select button

- Overrides auto-switching when two active sources are present.
- Simple manual control allows presenter to maintain control of AV system.

Auto display control

- Automatically changes projector power state based on active or standby mode of scaler. Control signals transmitted via IP, RS-232, or CEC.
- Eliminates need for complex control system in small AV systems. Enables display and volume control with AT-UHD-CLSO-824. CEC enables control of low-cost consumer displays.

Front panel input selection and on/off controls

- Remotely controls display power state; provides alternate 'Display Mute' mode.
- Eliminates need for manual operation of display or use of IR remote control.

Front panel volume control

- Remotely controls audio volume; provides 'Mute' mode.
- Eliminates need for manual operation of display or use of IR remote control.

Front panel power and input selection status LEDs

- LED indicators provide power and input selection status information.
- Provides easy setup and troubleshooting.

Local AC-powered version of AT-HDVS-200-TX

- Includes external power supply (**AT-HDVS-200-TX-PSK** only) – ideal for point-to-point installations with an HDBaseT-equipped projector.
- Also can be powered via PoE – provides an additional powering option through a compatible Atлона HDBaseT-equipped device, or the AT-PS-POE power injector.

Specifications

Video		
Signal	HDMI	
Copy Protection	HDCP 1.4	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160@60 ⁽³⁾ /50/30/25/24Hz 3840x2160@60 ⁽³⁾ /50/30/25/24Hz 1080p@60/59.9/50/30/29.97/25/ 24/23.98Hz 1080i@30/29.97/25Hz	720p@60/59.94/50Hz 576p@50Hz 576i@25Hz 480p@60/59.96Hz 480i@30Hz
VESA All resolutions are 60Hz	2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1280x1024	1280x800 1366x768 1360x768 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	
HDMI	PCM 2.0
Bit Depth	up to 24-bit
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

Ethernet	
Port	1 x RJ45
Standards and Protocols	HTTPS, Telnet, mDNS
Speeds	Local: 10/100/1000 Mbps Over HDBaseT: 10/100 Mbps
Addressing	DHCP, static - selectable through IP & RS-232 commands, and built-in web server

RS-232	
Port	1 x 3-pin captive screw
Use	Pass-through
Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200
Data Flow	Bidirectional

CEC	
Port	1 x HDMI, Type A, 19-pin female
Triggering	RS-232

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI IN	15	5	30	10
CAT5e	230	70	330	100
CAT6/6a/7	330	100	330	100

Buttons and Indicators	
Buttons: INPUT, VOL, DISPLAY, UP/DN	4 x push buttons, momentary, tact-type
Indicators: PWR, VGA, 1, 2	4 x LED, green

Connectors	
HDMI IN 1	1 - Type A, 19-pin female
HDMI IN 2	1 - Type A, 19-pin female
VGA IN	1 - 15-pin, VESA female
HDBaseT OUT	1 - RJ45
LAN	1 - RJ45
AUDIO IN	1 - 3.6 mm, stereo
RS-232	1 - 3-pin captive screw
FW	1 - micro-USB
DC 48V (PSK only)	1 - 2-pin, captive screw

Environmental	Fahrenheit	Celsius
Operating Temperature	+32 to +122 °F	0 to +50 °C
Storage Temperature	-4 to +140 °F	-20 to +60 °C
Operating Humidity (RH)	+20 to +90%, non-condensing	

Power	AT-HDVS-200-TX	AT-HDVS-200-TX-PSK
Consumption	30 W (when paired)	30 W (when paired)
Idle Consumption	N/A	22 W
BTU/h	32.5	
Supply	N/A	Input: 100 - 240 V AC, 50/60 Hz Output: 48 V DC, 3.125 A
Safety	N/A	CE, FCC, cULus

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.50 x 5.00 x 4.02	38 x 127 x 102
Power Supply (AT-PS-48083-D3) ⁽⁴⁾	1.42 x 1.81 x 4.41	36 x 46 x 112

Weight	Pounds	Kilograms
Device	0.64	0.29

Certification	
Device	CE, RoHS, FCC

Warranty	
Device	To view the product warranty, use the following link: https://atlon.com/warranty

Footnotes

- (1) Audio signals will not pass without an accompanying video signal.
- (2) Allows 4K/UHD transmission when used with a compatible HDBaseT receiver.
- (3) 4096x2160@50/60Hz & 3840x2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only.
- (4) Only included with AT-HDVS-200-TX-PSK.

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