

Product Data Sheet

4 x 1 and 8 x 2 Presentation Switchers — 4K, HDMI, DisplayPort, VGA, HDBaseT



AVSC-0401H



AVSC-0802H

Overview

The Presentation Switchers - 4K, HDMI, DisplayPort, VGA, HDBaseT, 4 x 1 and 8 x 2 are advanced multi-format converters, switchers, scalers, and extenders with built-in 4K scaling.

- AVSC-0401H has (1) VGA + Stereo, (1) DP, and (2) HDMI inputs, and (1) HDMI and (1) HDBaseT mirrored outputs.

NOTE: Scaling is only supported on HDMI output. For scaling on the AVSC-0401H's HDBaseT output, please use with VX-1003-TX scaling receiver.

- AVSC-0802H has (3) HDMI inputs, (2) VGA inputs with stereo audio, (1) DisplayPort input, (2) HDBaseT inputs, (1) HDMI output and (1) HDBaseT output.

Features

- Provides quick and seamless switching.
- Supports HDMI and DP input up to 4K @ 30 Hz and HDCP 1.4, and VGA input up to 1920 x 1200 @ 60 Hz.
- Provides HDMI out with a 4K @ 30 Hz scaler built-in and de-embedded balanced stereo audio out.
- HDBaseT with PoH powers remote HDBaseT receivers and transmitters.
- AVSC-0401H switches automatically to the latest input when it detects that any input is connected or disconnected.

Comparison Chart for Switchers and Extenders

	Switchers		Extenders*			
	AVSC-0401H	AVSC-0802H	VX-1001-TX	VX-1002-TX	VX-1001-RX	VX-1003-RX
HDMI in	2	3	√	√		
HDMI out	1****	1			√	√
HDBaseT in		2			√	√
HDBaseT out	1****	1	√	√		
VGA in	1	2		√		
DisplayPort in	1	1				
USB (HID)		√	√	√	√	√
Ethernet Passthrough	√	√	√	√	√	√
Ethernet Control		√				√**
CEC control	√	√				√
IR	√	√		√		√
Built-in scaling	√***	√				√
Auto switching	√			√		
RS-232 passthrough	√	√	√	√	√	√
RS-232 control	√	√				√
Analog audio	√	√		√		√
S/PDIF audio						√
PoH PSE (Power Sourcing Equipment)	√	√			√	√
PoH PD (Powered Device)			√	√	√	

*For more details about the VX1000 Extenders, see the VX1000 Extenders Product Data Sheet.

**Telnet only.

***HDMI output only.

****Mirrored outputs.

4 x 1 Presentation Switcher - 4K, HDMI, DisplayPort, VGA, HDBaseT (AVSC-0401H)



AVSC-0401H front panel



AVSC-0401H back panel

AVSC-0401H Specifications

Video/Audio	
Input/Output Connectors	Input: Video: (2) HDMI, (1) DisplayPort, (1) VGA IN, Audio: (1) Stereo audio (embedded with VGA inputs); Output: Video*: (1) RJ-45 HDBaseT, (1) HDMI; Audio: (1) balanced stereo audio output: 5-pin Phoenix connector <i>*NOTE: The video outputs are mirrored. Only the HDMI output supports scaling.</i>
Input/Output Signal Type	HDMI 1.4, HDBaseT
Input/Output Resolution Support	VESA: 640 x 480 @ 60 Hz, 800 x 600 @ 60 Hz, 1024 x 768 @ 60 Hz, 1280 x 768 @ 60Hz, 1280 x 800 @ 60Hz, 1280 x 960 @ 60Hz, 1280 x 1024 @ 60 Hz, 1360 x 768 @ 60 Hz, 1366 x 768 @ 60 Hz, 1440 x 900 @ 60 Hz, 1600 x 900 @ 60 Hz, 1600 x 1200 @ 60 Hz, 1680 x 1050 @ 60 Hz, 1920 x 1200 @ 60 Hz, 1920 x 1200 @ 60 Hz; SMPTE: 720 x 480 @ 60 Hz, 720 x 576 @ 50 Hz, 1280 x 720 @ 50/60 Hz, 1920 x 1080 @ 50/60 Hz, 3840 x 2160 @ 30 Hz; <i>NOTE: Supports HDMI/DP input up to 4K @ 30 Hz; VGA input up to 1920 x 1200 @ 60 Hz.</i>
Deep Color	1080p: 48-bit, 4K: 24-bit
Format	HDMI OUT: PCM 2.0 and Dolby 5.1; HDBaseT OUT: Multichannel digital audio supporting up to 7.1 DTS Master HD and Dolby True HD; AUDIO OUT: PCM2.0
Control	
Control Method	RS-232, front-panel Buttons, contact closures

AVSC-0401H Specifications (continued)

Electrical/Power	
ESD Protection	Human-body Model: ±8 kV (Air-gap discharge)/±4 kV (Contact discharge)
Surge Protection	Voltage: ±1 kV (Ten times respectively for the positive and negative voltage)
Electrical Fast Transient/Burst	Data communication cord: 1 kV; Power cord : 2 kV
Power Supply	12 VDC, 3 A
Power Consumption (Maximum)	22 W
Environmental	
Operating Temperature	32 to 113° F (0 to 45° C)
Storage Temperature	-4°F to +158° F (-20 to +70° C)
Humidity	10% to 90%, non-condensing
Mechanical	
Dimensions	0.83"H x 8.66"W x 6.46"D (2.1 x 16.42 x 22 cm)
Weight	1.8 lb. (0.82 kg)
Mounting	Wallmount brackets included
Approvals	CE, FCC

8 x 2 Presentation Switcher - 4K, HDMI, DisplayPort, VGA, HDBaseT



AVSC-0802H front panel



AVSC-0802H back panel

AVSC-0802H Specifications

Video/Audio	
Input/Output Connectors	Input: Video: (3) HDMI IN, (2) VGA IN, (1) DisplayPort IN, (2) HDBaseT IN, Audio: (2) Microphone IN (3-pin Phoenix connector), (2) Balanced stereo audio IN (5-pin Phoenix connector); Output: Video: (1) HDMI OUT, (1) RJ-45 HDBaseT OUT; Audio: (1) Balanced stereo audio OUT (5-pin Phoenix connector)
Input/Output Signal Type	HDMI 1.4, HDBaseT
Input/Output Resolution Support	VESA: 640 x 480 @ 60 Hz, 800 x 600 @ 60 Hz, 1024 x 768 @ 60 Hz, 1280 x 768 @ 60Hz, 1280 x 800 @ 60Hz, 1280 x 960 @ 60Hz, 1280 x 1024 @ 60 Hz, 1360 x 768 @ 60 Hz, 1366 x 768 @ 60 Hz, 1440 x 900 @ 60 Hz, 1600 x 900 @ 60 Hz, 1600 x 1200 @ 60 Hz, 1680 x 1050 @ 60 Hz, 1920 x 1200 @ 60 Hz, 1920 x 1200 @ 60 Hz; SMPTE: 720 x 480 @ 60 Hz, 720 x 576 @ 50 Hz, 1280 x 720 @ 50/60 Hz, 1920 x 1080 @ 50/60 Hz, 3840 x 2160 @ 30 Hz
Deep Color	1080p: 48-bit, 4K: 24-bit
Control	
Control Method	RS-485, RS-232, IP (Web UI or Telnet), IR Remote, Front-panel Buttons

Presentation Switchers — 4K, HDMI, DisplayPort, VGA, HDBaseT Data Sheet

Electrical/Power	
ESD Protection	Human-body Model: ±8 kV (Air-gap discharge)/±4 kV (Contact discharge)
Surge Protection	Voltage: ±1 kV (Ten times respectively for the positive and negative voltage)
Electrical Fast Transient/ Burst	Data communication cord: 1 kV; Power cord : 2 kV
Power Supply	100 to 240 VAC, 50/60 Hz
Power Consumption (Maximum)	73.5 W
Environmental	
Operating Temperature	32 to 113° F (0 to 45° C)
Storage Temperature	-4°F to +158° F (-20 to +70° C)
Humidity	10% to 90%, non-condensing
Mechanical	
Dimensions	1.71"H x 17.32"W x 12.99"D (4.35 x 44 x 33 cm)
Weight	10.38 lb. (4.72 kg)
Rack Space Required	1U height
Approvals	
	CE, FCC, RoHS

Ordering Information

Item	Code
Presentation Switchers, 4K, HDMI, DisplayPort, VGA, HDBaseT	
4 x 1	AVSC-0401H
8 x 2	AVSC-0802H
You might also need...	
VX1000 Series Extenders	
Transmitters	
Transmitter - 4K, HDMI, HDBaseT, USB	VX-1001-TX
Wallplate Transmitter - HDMI, VGA, HDBaseT	VX-1002-TX
Receivers	
Receiver - 4K, HDMI, HDBaseT, USB	VX-1001-RX
Presentation Switcher Scaling Receiver	VX-1003-RX

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