

Description

The Savant SmartMediaPro (SSP-0600) is a controller that provides high definition (HD) video switching and audio switching.

Supporting six card slots, the flexible design of the SSP-0600 allows it to be field upgraded by adding audio and video processing modules, or audio and video input/output modules based on the needs and complexity of an installation.

Audio and video switching and processing features are based on specific configurations and available by ordering the appropriate optional modules. The modular design of the SSP-0600 platform supports up to 12 x 12 HD video switching or 24 x 24 audio, depending on the optional service modules selected.

The SSP-0600 can drive up to six TrueCommand™ (OSD) user interfaces.

The master host controller selected and paired with the SSP-0600 provides iTunes® Digital Media Server features and capabilities. In addition, an optional redundant host controller model is offered for high availability.

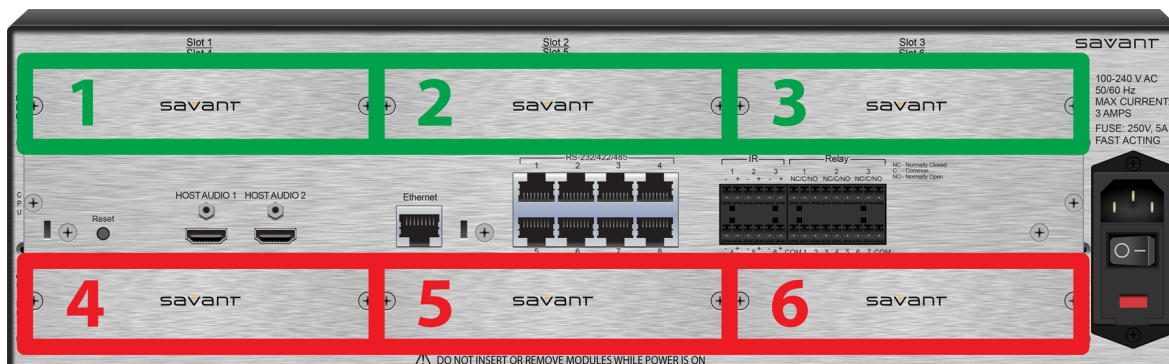
Feature Summary

- Modular design up to 12 x 12 video, 24 x 24 stereo audio
- Chassis holds a maximum of three input modules and three output modules
- Control Formats - Provides the control and automation features common in complex installations
 - (8) RS-232/422/485 Serial ports
 - (6) IR Transmitter ports
 - (3) Relay Ports
 - (7) GPIO Ports
- Ethernet 10/100 base-T
- Two host audio ports using HDMI
- Cost-effective control and scalability
- Use RacePoint Blueprint™ design tool to configure and customize SSP-0600



Front View of SSP-0600 (above)

In the rear view of the SSP-0600, shown next, the green outlined section (slots 1-3) is used for audio and video input modules. The red outlined section (slots 4-6) shows where the audio and video output modules are installed.

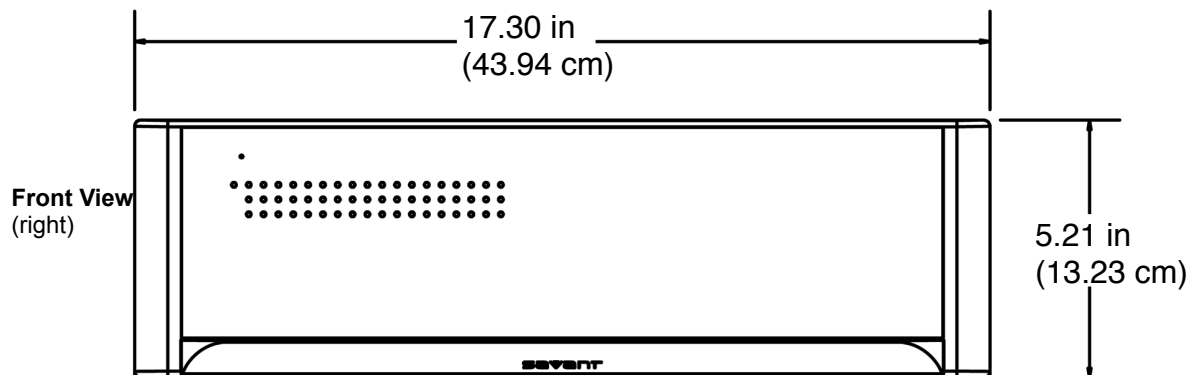
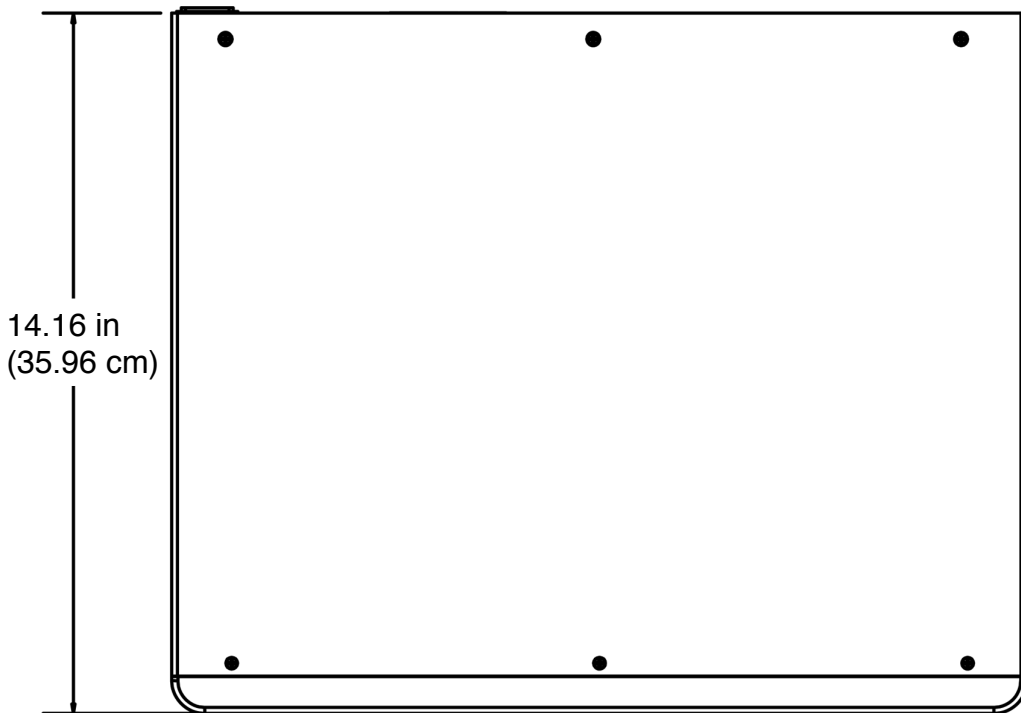


Rear View of SSP-0600 (above)

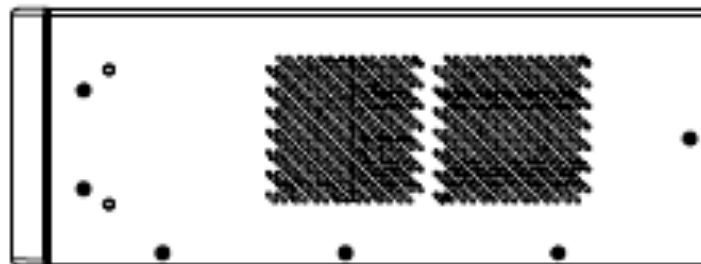
Dimensions

The figures below show the dimensions of the SmartMediaPro (SSP-0600).

Top View (below)



Side View (right) of SSP-0600 showing air inlet vent



Specifications

Environmental	
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 80% RH (non-condensing)
Cooling	25 cubic feet per minute (CFM) recommended. Note that each chassis has fans pushing 36 CFM
Maximum BTU	512 BTUs per hour
Noise	Normal Operation Condition: 52 dB Average
Dimensions and Weight	
Height	5.21 in/13.23 cm
Width	17.30 in/43.94 cm
Depth	14.16 in/35.96 cm
Weight	24.91 lb/11.30 kg (Base Configuration)
Rack Space	3U (see <i>Installation Considerations</i> , page 7)
Power	
Power Supply	100 - 240V AC, 50/60 Hz
Maximum Power	200W
Compliance	
Safety and Emissions	CB S-Mark FCC Part 15 CE Mark C-Tick
RoHS	Compliant
Rear Panel	
See <i>Rear Panel Capabilities and Connectors</i> page 5.	
Front Panel LEDs	
The LEDs on the front panel are used for diagnostic purposes. A description of the LEDs is available in the <i>SmartMediaPro (SSP-0600) Quick Reference Guide</i> .	
Enclosure	
Metal enclosure, matte black.	

Included Items

The individual components contained in the installation kit for the SSP-0600 are outlined in the next table.

Description	Quantity
Screws M5x8 mm Flat Phillips Black	4
9-Pin Screw Down Plug-In Connector	2
6-Pin Screw Down Plug-In Connector	2
Power Cord North America C13 (6 ft) or appropriate international power cord.	1
Mini Display Port to HDMI Cable (1 m)	1
Module Removal Tool	2
HDMI Locking Cable (3 ft)	1
Sheet Metal 3U Rack Mounting Bracket	2
SmartMediaPro (SSP-0600) Quick Reference Guide	1

Required System Components

The system components required for use with the SSP-0600 are outlined in the next table.

Description	Model Number
Host Controllers	HST-4001, HST-4002, SVR-4100, or SVR-4100S
Ethernet Network	Enterprise-grade network deployment

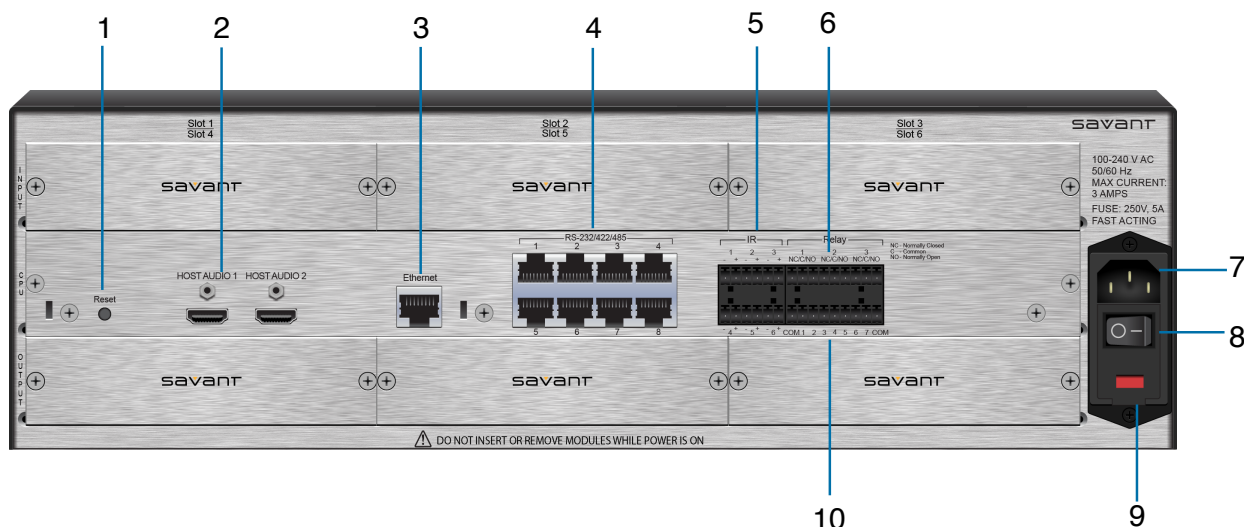
Optional Accessories

The optional accessories available for use with the SSP-0600 are outlined in the next table. For details on the supported audio and video modules see page 8 of this technical specification.

Description	Model Number
RS-232 Adapter Kit (5 pack)	SAK-1000
Infrared (IR) Emitter	IRB-1000
Infrared (IR) Emitters (10 pack)	IRB-1010
USB over Cat 5E Digital Extender Set	UCX-1100
HDMI locking cable (3 ft)	CBL-3LHDMI
HDMI locking cable (6 ft)	CBL-6LHDMI
HDMI over Cat 5/6 Solution Set	HCX-1010
HDMI over Coax Solution Set	HCX-1100
HDMI over Multi-Mode Fiber Optic Cable Solution Set	HCX-1200
RJ-45 Serial Adapters Flow Null (10-pack)	CON-10FN
RJ-45 Serial Adapters Flow No Null (10-pack)	CON-10FNN
DB-9 Mini Gender Changer (10 pack)	CON-10GEN
RJ-45 Serial Adapters No Flow Null (10-pack)	CON-10NFN
RJ-45 Serial Adapters No Flow No Null (10-pack)	CON-10NFNN
9-pin Screw-Down Connector (25 pack)	CON-STC9
6-pin Screw-Down Connector (25 pack)	CON-STC6

Rear Panel Capabilities and Connectors

This section provides information about the rear panel of the SSP-0600. The numbers shown in the left column of the next table correspond to the numbers in the next figure.

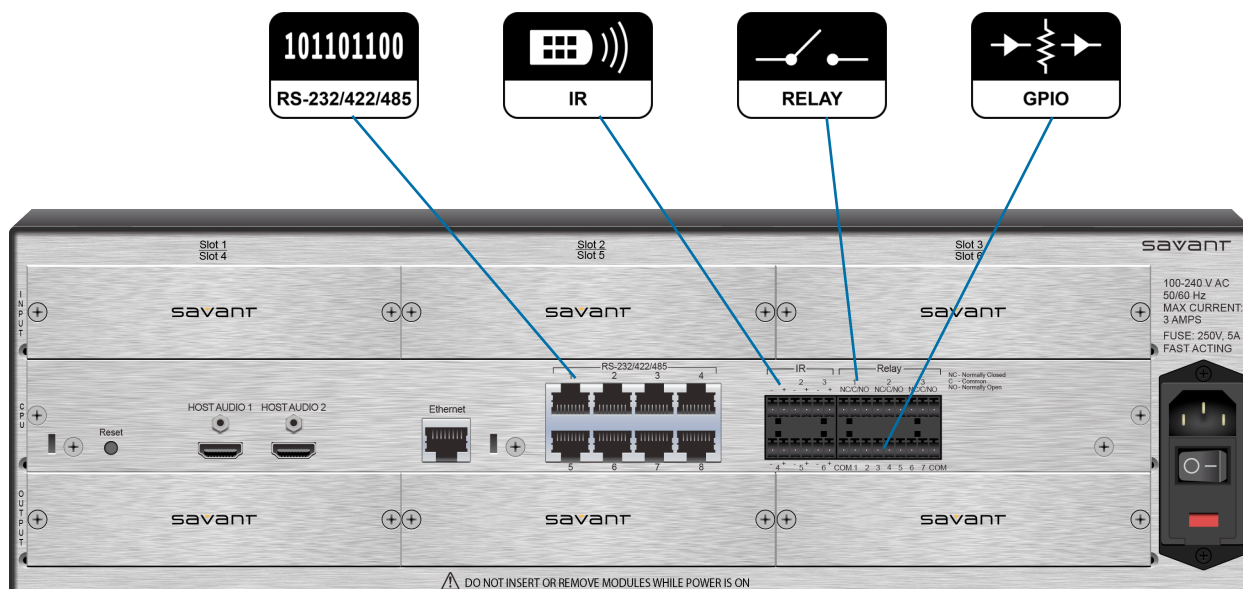


The next table describes the callouts in the previous figure.

Number	Item	Description
1	Reset button	Resets the embedded processor
2	Host Audio 1, 2	HDMI input ports used to receive digital audio (iTunes®) from Host (such as HST-4001).
3	Ethernet	RJ45 10/100 Base-T, auto-negotiating port
4	RS-232/422/485 (serial ports 1–8)	RJ45 ports used to transmit and receive serial binary data transmission. Ports 1 and 2 only support flow control Clear to Send / Ready to Send (CTS/RTS) for RS-232.
5	IR Output (1–6)	Infrared transmitter output ports (two 6-pin 3.81 mm screw-down connectors)
6	Relay 1, 2, 3 NC/C/ NO (Normally Closed /Common/Normally Open)	These ports provide dry contacts (open/closed) to control devices requiring basic on/off operation. (9-pin 3.81 mm screw-down connector). A relay can only pass DC voltage through it, with a limit of 30V DC at 1 amp.
7	Input power connector	Connects 100-240V AC, 50/60 Hz source power to Controller from a surge-protected circuit.
8	I/O	On/Off button - I is used to power the controller to the On state. O is used to power the controller to the Off state.
9	Fuse	250V 5A—fast acting fuse. This is replaceable.
10	GPIO ports (COM, 1–7, COM)	General Purpose Input and Output ports—9-pin screw-down connector) The digital GPIO ports are binary I/O ports used for contact closure, trigger (output), or detect (input). Each GPIO is individually configured as an input or output trigger. All seven GPIO pins use the COM pins for common ground (at each end of the GPIO block).
	GPIO inputs	When configured as an input, the GPIO port detects a voltage present (GPIO input). GPIO inputs can safely detect the presence of a voltage of 0-30V DC with a threshold of 2.4V DC.
	GPIO outputs	When configured as an output, a GPIO port outputs a voltage between 0V-12V DC. The maximum current per port is 150 milliamps. The combined maximum current for all GPIO outputs is 550 milliamps.

Devices Supported by SSP-0600

The next figure shows a rear view of the SSP-0600. The devices that can be used with an SSP-0600 are described in the next table.

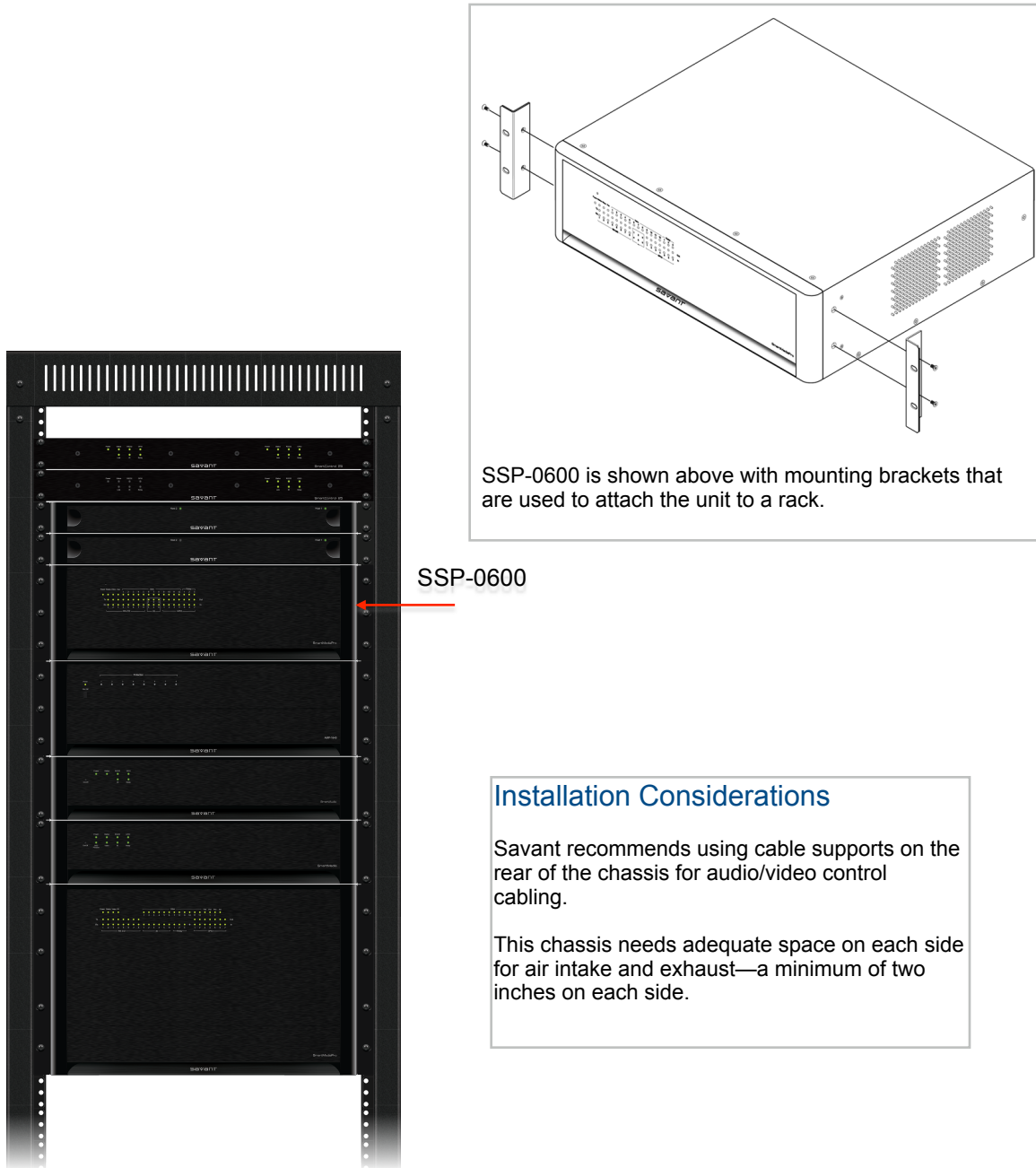


The next table describes the typical uses associated with the ports on the SSP-0600.

Port Quantity	Port Type	Port Icon	Typical Uses
8	Serial		Lighting, Displays, Door Entry Systems, and Heating Ventilation Air Conditioning (HVAC)
6	Infrared		Blu-ray Players, Displays, and Set Top Boxes (Cable and Satellite)
7	General Purpose Input Output		Equipment Power Sensing, and Voltage Control Applications
3	Relay		Shade Control, Gate Controllers, and Door Latch, and Motorized Lifts

Specifications for Mounting Device in Rack

The SSP-0600 can be mounted in a 3U rack-style enclosure. The next figure shows a partial view of a typical rack used to house an SSP-0600 and other devices. The SSP-0600 is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack-mounts.



SSP-0600 is shown above with mounting brackets that are used to attach the unit to a rack.

Installation Considerations

Savant recommends using cable supports on the rear of the chassis for audio/video control cabling.

This chassis needs adequate space on each side for air intake and exhaust—a minimum of two inches on each side.

Supported Modules

The SSP-0600 supports three input modules and three output modules in any combination. The supported audio and video modules are described in the next table.

Model Number	Description
AIM-0A16	An analog audio input module that supports eight analog stereo inputs.
AIM-BAL16	A balanced analog audio input module that supports eight analog stereo inputs.
AIM-D4A8	A mixed digital and analog audio input module that supports four analog stereo inputs, two digital coax (S/PDIF) inputs, and two TosLink (optical digital) inputs.
AOM-016U	An analog audio output module that supports eight unbalanced stereo preamplifier outputs.
AOM-04DC	A digital audio output module that supports four coax digital outputs.
AOM-BAL16	An analog audio output module that supports eight balanced stereo preamplifier outputs.
AOM-D16U	An analog audio output module that supports eight unbalanced stereo preamplifier outputs with audio time delay.
AOM-SS8U	An analog audio processing module that supports four stereo outputs and one 7.1 surround sound preamplifier output.
VIM-30D2	A digital video input module that supports two HDMI™ inputs.
VIM-30D4	A digital video input module that supports four HDMI™ inputs.
VIM-A2C2V	An analog video input module that has two component inputs and two VGA inputs.
VIM-A4C	An analog video input module having four analog component inputs.
VIM-F004	A video input module that supports four-port HDMI™ over fiber.
VOM-30D2	A digital video output module that supports two HDMI™ outputs.
VOM-30D4	A digital video output module that supports four HDMI™ outputs.
VOM-F004	A video output module that supports four-port HDMI™ over fiber.
VOM-SV02	A multi-window video processing output module, with two outputs—supports SmartView Tiling.
VOM-VP01F	A digital video output module that enables Savant's TrueCommand™ (On-Screen Display) technology.
VOM-VP02F	A digital video output module that enables Savant's TrueCommand™ (On-Screen Display) technology.
VOM-VP02H	A video processing and scaling service module that supports two HDMI™ outputs with TrueCommand (OSD).
VOM-VPS2	A video processing and scaling service module that supports two HDMI™ outputs.
VOM-VPSF2	A dual port video processor and scalar with fiber HDMI™ extension output ports.