

# SAVANT IP VIDEO & AUDIO

Thrill the Audience with Savant IP Solutions



**SAVANT**

savant.com



## IP VIDEO

Savant 4K-Over-IP is an advanced, high-speed, scalable solution that fits equally in small and large video distribution systems. Audio Down-mixing and advanced video processing enable Savant IP Video and Audio distribution solutions to deliver any video and/or audio source to any room.



# HIGH-PERFORMANCE ENTERTAINMENT

Distribute pristine pixel perfect video at the highest resolutions, and clean, clear audio from source to speaker. Deliver scalable and reliable custom systems that live up to the Savant name.



## ONLY FROM SAVANT

Savant IP Video combines the latest in 10GbE networking with proprietary technology to distribute exact uncompressed video with zero frame latency at the most commonly used 4K resolutions\*. Includes support for HDCP 2.2 and HDMI 2.0a with HDR\*\*.



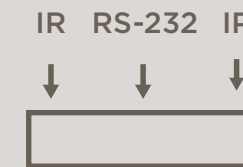
## ROCK SOLID RELIABILITY

Savant pioneered reliable, fast switching HDMI distribution with audio and uses the same technology to deliver synchronized video and audio content to any room over IP.



## SUPER SCALE

Use Savant IP Audio and Video for your largest distribution jobs. System size is only bounded by the network. Simply add more Savant IP transmitters or receivers on the network to add a new source or display to the system.



## AT YOUR COMMAND

Includes Savant control ports for each input and output. With support for Video Tiling, format locking per display, video down-conversion and EDID management, Savant IP video ensures you are always in command.



## BRING THE AUDIO

Only Savant provides solutions for simultaneous audio distribution over IP. Options available to down-mix surround audio to 2 channel and distribute over the AVB/TSN network, or use PCM audio.



## FUTURE PROOF

10GbE network bandwidth ensures that your video distribution system will be ready for whatever tomorrow brings.

\*no compression at resolutions below 4K/60 4:4:4. Minimal 1:4 to 1 compression for 4K/60 4:4:4 only.  
\*\*HDR support available as per the HDMI 2.0a spec at 4K/60 4:2:2 and below.



## IP VIDEO TILING - ONLY FROM SAVANT

Display multiple sources on a screen, simply control sources and choose audio, create presets, add to Savant Scenes and much more.



### SEE IT ALL

Savant's unique control interface makes multiple views simple and intuitive. Select from predefined layouts, drag a tile to move views, double tap to expand a particular source, or press and drag the audio icon to choose which source to listen to.



### VIDEO TILING ANYWHERE

With Savant's IP Video solutions, Video Tiling is available on any display connected to the IP Video system, either with the same view or each with an independent view.



### CONTROL AT YOUR FINGERTIPS

Tap on any tile to bring up the control interface for that source. Whether it's streaming, cable, satellite, or your favorite gaming console, Savant's advanced interface determines the right controls for that source.



### ALL YOUR FAVORITES

Access all your favorite channels at a touch. Save certain views with predefined layouts, channels and sources. Keep one for all your morning information, one for your work day, and another for game day, the choice is yours.

## VIDEO INPUTS

Video Inputs take sources and transmit them to the 10Gb Video network



Type	Video Transmitter 4 or 8 Input	Video Transmitter 4 or 8 Input	Video Transmitter Single Input	Video Transmitter Single Input	Video Transmitter Single Input
Model Number	PAV-VIM4S / PAV-VIM8S	PAV-VIMAP4S / PAV-VIMAP8S	PAV-VIM1C	PAV-VIMVP1C	PAV-VIMVP1F
Connectivity					
IR Control Ports	4 / 8 (1 Per Source)	4 / 8 (1 Per Source)	1	1	1
RS232 Control Ports	4 / 8 (1 Per Source)	4 / 8 (1 Per Source)	1	1	1
1GbE Network Connectivity	4 / 8 (1 Per Source)	4 / 8 (1 Per Source)	1	1	1
Recommended Infrastructure	SFP + Termination	SFP + Termination	Cat6A / Cat7	Cat6A / Cat7	Duplex MM Fiber
10GbE Termination Type	SFP+	SFP+	RJ45	RJ45	Dual LC
Supported Distance	300m / 1000'	300m / 1000'	100m / 330'	100m / 330'	300m / 1000'
Legacy Copper Support	N/A	N/A	Cat6 & Cat5e @ 30m/100'	Cat6 & Cat5e @ 30m/100'	N/A
Video Performance					
Video Wall Compatibility	•	•	•	•	•
Multi-View / Tiling Compatibility	•	•		•	•
Audio Downmixing with AVB Integration		•			
PCM Stereo / Multi-Channel PCM Support	•	•	•	•	•
Supported Video Formats	Up to 4K/60 4:4:4 w/ HDR	Up to 4K/60 4:4:4 w/ HDR	Up to 4K/60 4:4:4 w/ HDR	Up to 4K/60 4:4:4 w/ HDR	Up to 4K/60 4:4:4 w/ HDR
HDMI	2.0a	2.0a	2.0a	2.0a	2.0a
HDCP	2.2	2.2	2.2	2.2	2.2
HDR Support	•	•	•	•	•
Installation					
Rack Mountable	•	•	With RCK-PAVVM8		
Rack Height	3U	3U	5U (Up to 8 Transmitters)		

## VIDEO OUTPUTS

Video Outputs receive video from the 10Gb network and output them to TVs and projectors



Type	Video Receiver Single Output	Video Receiver Single Output	Video Receiver Single Output
Model Number	PAV-VOMIC	PAV-VOMVP1C	PAV-VOMVP1F
Connectivity			
IR Control Ports	1	1	1
RS232 Control Ports	1	1	1
1GbE Network Connectivity	1	1	1
Recommended Infrastructure	Cat6A / Cat7	Cat6A / Cat7	OM3 Duplex MM Fiber
10GbE Termination Type	RJ45	RJ45	Dual LC
Supported Distance	100m / 330'	100m / 330'	300m / 1000'
Legacy Copper Support	Cat6 & Cat5e @ 30m/100'	Cat6 & Cat5e @ 30m/100'	N/A
Video Performance			
Video Scaling		•	•
Seamless Switching		•	•
Video Wall Compatibility		•	•
Multi-View / Tiling Compatibility		•	•
HDMI Audio	•	•	•
Supported Video Formats	Up to 4K/60 4:4:4 w/ HDR	Up to 4K/60 4:4:4 w/ HDR	Up to 4K/60 4:4:4 w/ HDR
HDMI	2.0a	2.0a	2.0a
HDCP	2.2	2.2	2.2
HDR Support	•	•	•

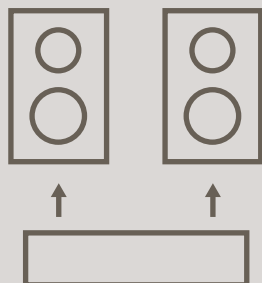


## IP AUDIO

Any source, any speaker. The Savant IP Audio product line is a decentralized, massively scalable audio distribution solution. Utilizing AVB, a plug-and-play networking protocol, Savant IP Audio systems distribute and synchronize high resolution audio anywhere in the home. Simply plug any Savant IP Audio module into an AVB Ethernet switch to add audio to any room.

# SAVANT IP AUDIO DISTRIBUTION

Any source to any speaker.



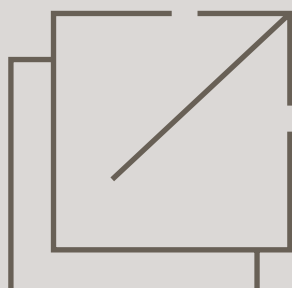
## SOURCE-TO-SPEAKER

Only Savant offers a complete source-to-speaker audio distribution solution. Enjoy high-performance end-to-end delivery of digital music that circumvents the signal loss and degradation of traditional analog music systems. Deploy dynamic solutions that blend in-room speakers with the enhancement of a subwoofer to provide a richer experience.



## DISTRIBUTED ARCHITECTURE

The home network has changed everything about our modern lives, including how we distribute audio signals throughout a home. Savant IP Audio leverages leading network technologies to decentralize your system and place equipment where it makes sense - closer to speakers or even in another building. A single category cable is all that is required to link it all together, reducing wiring and installation costs.



## MODULAR AND SCALABLE

Design systems using products with the perfect combination of music, switching, amplification and control. Fewer products, less rack space, quicker deployment, higher satisfaction.

Savant IP Audio offers the flexibility to deploy any sized solution from an enhanced single room audio experience to the largest of distributed applications.



## SEAMLESS INTEGRATION

The perfect companion to a Savant IP Video system, Savant IP Audio works hand-in-hand to ensure synchronized delivery of stereo sound for any video source being distributed to your TV.



## HIGH RESOLUTION

Your favorite streaming sources are delivered in stunning, high-resolution audio to any area of the home. Sit back and enjoy the experience of sitting in the recording studio with your favorite artist.



## STANDARDS-BASED

Utilizing Audio Video Bridge (AVB), a plug-and-play IEEE networking protocol, Savant IP Audio systems distribute and synchronize high resolution audio throughout the home with extremely low latency.



## IP AUDIO MICRO APERTURE

These decor friendly in-ceiling speakers are available with compact, paintable round or square perforated grilles which complement USAI lighting fixtures for a clean, crisp look that architects, decorators, and clients will love. IP speakers are a new innovation in the way sound is delivered. Isolated from rooms above through their closed backs, IP Audio speakers are POE powered and can drive up to three IP satellite speakers. This provides a 4-speaker capacity based on a single IP speaker and POE connection. Each IP speaker is individually controlled and connected to the network digital direct, eliminating the problems inherent with long analog audio speaker cable runs.



IP AUDIO MICRO  
APERTURE 4



IP AUDIO MICRO  
APERTURE 4 SATELLITE



IP AUDIO MICRO APERTURE 4, ROUND  
EDG-4-AVB-R

Model Number	EDG-4-AVB	EDG-4-SAT
Driver	Full Range Speaker 3.0" BMR™ (Balanced Mode Radiator) Flat Paper Laminated Honeycomb Diaphragm with water resistant coating Rubber surround Die-cast Aluminum frame Neodymium Magnet Wide Off axis power response	
Power	50W total (PoE 802.3bt Type 3)*	N/A
Sensitivity	89dB SPL (2.83V/1 meter)	89dB SPL (2.83V/1 meter)
Dimension	4.65" x 5.23"	4.65" x 5.23"
Weight	1.75 lbs	1.75 lbs
Recommended Subwoofers	Nano or RCC	Nano or RCC
Square SKU Available	Yes	
Round SKU Available	Yes	
Closed Back	Yes	
POE driven Internal Amplifier	Yes	No**
Sold As	Pair***	Pair
Acoustic Delay	0 - 100 ms	0 - 100 ms
Stereo/Mono Selection	Yes	
AVB Expansion	Unlimited number of units in a system	
Tone generation for Speaker Location	Yes	
Install Eze Tool-less Installation	Yes	

\* 22.5W with 1 satellite, 12W with 3 satellites

\*\* No amplifier required, driven off parent IP Aperture

\*\*\* Pair includes 1 IP Aperture and 1 IP Aperture Satellite





## THE FIRST SOUNDBARS THAT ALSO CONTROL THE HOME

Savant's Soundbars with Integrated Host simplify small project installations by providing everything you need in one package. Our new all-in-one single room entertainment solutions include a built-in host, single stream music server, and control ports. Pair with a Savant Pro Remote to deliver the complete Savant experience.

All of Savant's IP Soundbars with Integrated Host are part of the IP audio product suite, allowing you to expand to include IP Micro Aperture in-ceiling speakers, subwoofers and other distributed audio solutions.

Savant's latest offering, the Smart Audio WISA Soundbar, is a 3-Channel LCR Soundbar solution that uses WiSA wireless technology to expand to optional Subwoofers and Surround speakers. This platform dynamically supports surround configurations from 2.0 to 5.2, and includes everything you need to start a Savant Home.

	IP AUDIO SOUNDBAR 46	IP AUDIO SOUNDBAR 55	SMART AUDIO WISA SOUNDBAR 55
Model Number	HST-STUDIO46-2CH-00	HST-STUDIO55-2CH-00	HST-STUDIO55WS-SUR-00
Savant Music Server	Yes		
Drivers	(4) 3.5" (89mm) Long Throw Carbon Fiber Midrange / Woofers (2) 25mm Vifa DX Super Audio Tweeters (2) 19mm Stage Tweeters	(6) 3.5" (89mm) Long Throw Carbon Fiber Midrange / Woofers (2) 25mm Vifa XT Super Audio Tweeters (2) 19mm Stage Tweeters	6 - 3.5"(89mm) Long Throw Carbon Fiber Midrange / Woofers 3 - 25mm Vifa XT Super Audio Tweeters 2 -19mm Stage Tweeters
Frequency Response	Amplifier Frequency Response = 20 Hz to 20 kHz, +-1dB Acoustic Frequency Response = 100 Hz - 50 kHz ± 3 dB, bass enhancement to 50 Hz	Amplifier Frequency Response = 20 Hz to 20 kHz, +-1dB Acoustic Frequency Response = 80 Hz - 50 kHz ± 3 dB, bass enhancement to 40 Hz	Amplifier Frequency Response = 20 Hz to 20 kHz, +-1dB Acoustic Frequency Response = 80 Hz - 50 kHz ± 3 dB, bass enhancement to 40 Hz
Grille	Custom, minimum grille width: 45.4"	Custom, minimum grille width: 54.1"	Included. Custom available, min grille width: 54.1"
Dimension	Without Grille: 4.17"H (105.9mm) x 44.76"W (1137mm) x 2.25"D (57.13mm) With Grille: 4.78"H (121.37mm) x Custom x 2.76"D (70.04mm)	Without Grille: 4.17"H (105.9mm) x 53.41"W (1356.50mm) x 2.25"D (57.13mm) With Grille: 4.78"H (121.37mm) x Custom W x 2.76"D (70.04mm)	Without Grille: 4.17"H (105.9mm) x 53.41"W (1356.50mm) x 2.25"D (57.13mm) With Grille: 4.78"H (121.37mm) x 53.41" W x 2.76"D (70.04mm)
Weight	30 lbs	31 lbs	21.7 lbs
Recommended Subwoofers	Nano 1 or RCC 320 Subwoofer		Smart Audio WISA SUB 1
Material & Finish	Extruded aluminum with black anodized finish		
Enclosure Type	Acoustic Suspension		
Inputs	Ethernet, TOSLINK		
Outputs			3.5mm Subwoofer Output
Control Ports	Two RS232, Three IR		
Accessories			Smart Audio WISA SUB (up to 2), Smart Audio WISA Surround Speakers



IP AUDIO SOUNDBAR 46 WITH INTEGRATED HOST,  
HST-STUDIO46-2CH



IP AUDIO SOUNDBAR 55 WITH INTEGRATED HOST,  
HST-STUDIO55-2CH



SMART AUDIO WISA SOUNDBAR 55,  
HST-STUDIO55WS-SUR-00

## IP AUDIO AMPLIFIERS & MUSIC

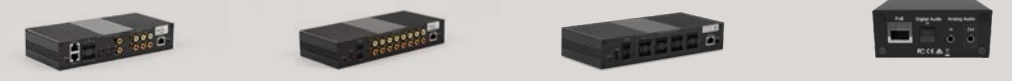
IP Audio transmits and/or receives audio over the 1Gb AVB network



Type	IP Audio Transmit and Receiver with Amplification	IP Audio Transmit and Receiver with Amplification	IP Audio Amplifier with Integrated Host	Streaming Music Server with Transmitter
Model Number	<b>PAV-SIPA50SM</b>	<b>PAV-SIPA125SM</b>	<b>HST-SIPA1SM</b>	<b>PAV-SMS2001</b>
Connectivity				
Analog Audio Inputs	<b>2</b>	<b>2</b>	<b>1</b>	
Optical Audio Inputs	<b>2</b>	<b>2</b>	<b>1</b>	
Digital Coax Audio Inputs				
Embedded Music Stream	•	•	•	•
Powered Speaker Outputs	<b>4 Zones</b>	<b>4 Zones</b>	<b>1 Zone</b>	
Amplifier Rating	<b>50W/Ch (8 Ohm)</b>	<b>125W/Ch (8 Ohm)</b>	<b>125W/Ch (8 Ohm)</b>	
4 Ohm Stable	•	•	•	
Pre-amp RCA Outputs (Fixed or Variable)	<b>1</b>	<b>1</b>	<b>1</b>	
Pre-amp Optical Outputs (Fixed Only)	<b>1</b>	<b>1</b>		<b>1</b>
Pre-amp Digital Coax Outputs (Fixed Only)				<b>1</b>
IR Control Ports	<b>4</b>	<b>6</b>	<b>3</b>	
RS232 Control Ports	<b>2</b>	<b>2</b>	<b>2</b>	
GPIO Control Ports		<b>1</b>		
Relay Control Ports		<b>1</b>		
Additional Features				
Expansion	<b>45 Talker Products - 200 Simultaneous Streams - Unlimited Listeners</b>			
AVB Device Type	<b>Talker/Listener</b>	<b>Talker/Listener</b>	<b>Talker/Listener</b>	<b>Talker/Listener</b>
Zone Output Grouping	•	•	•	
Audio Sync Delay Adjustment	<b>0-160ms</b>	<b>0-160ms</b>	<b>0-160ms</b>	<b>0-160ms</b>
Adjustable EQ	•	•	•	
Installation				
Rack Mountable	•	•	<b>With RMB-SIPA12F</b>	<b>With RMB-PAVAM2</b>
Rack Height	<b>2U</b>	<b>1U</b>	<b>1U</b>	<b>1U</b>
Low Voltage Enclosure Compatible	•			
PoE Powered				<b>Optional</b>

## IP AUDIO EXPANSION

IP Audio transmits and/or receives audio over the 1Gb AVB network

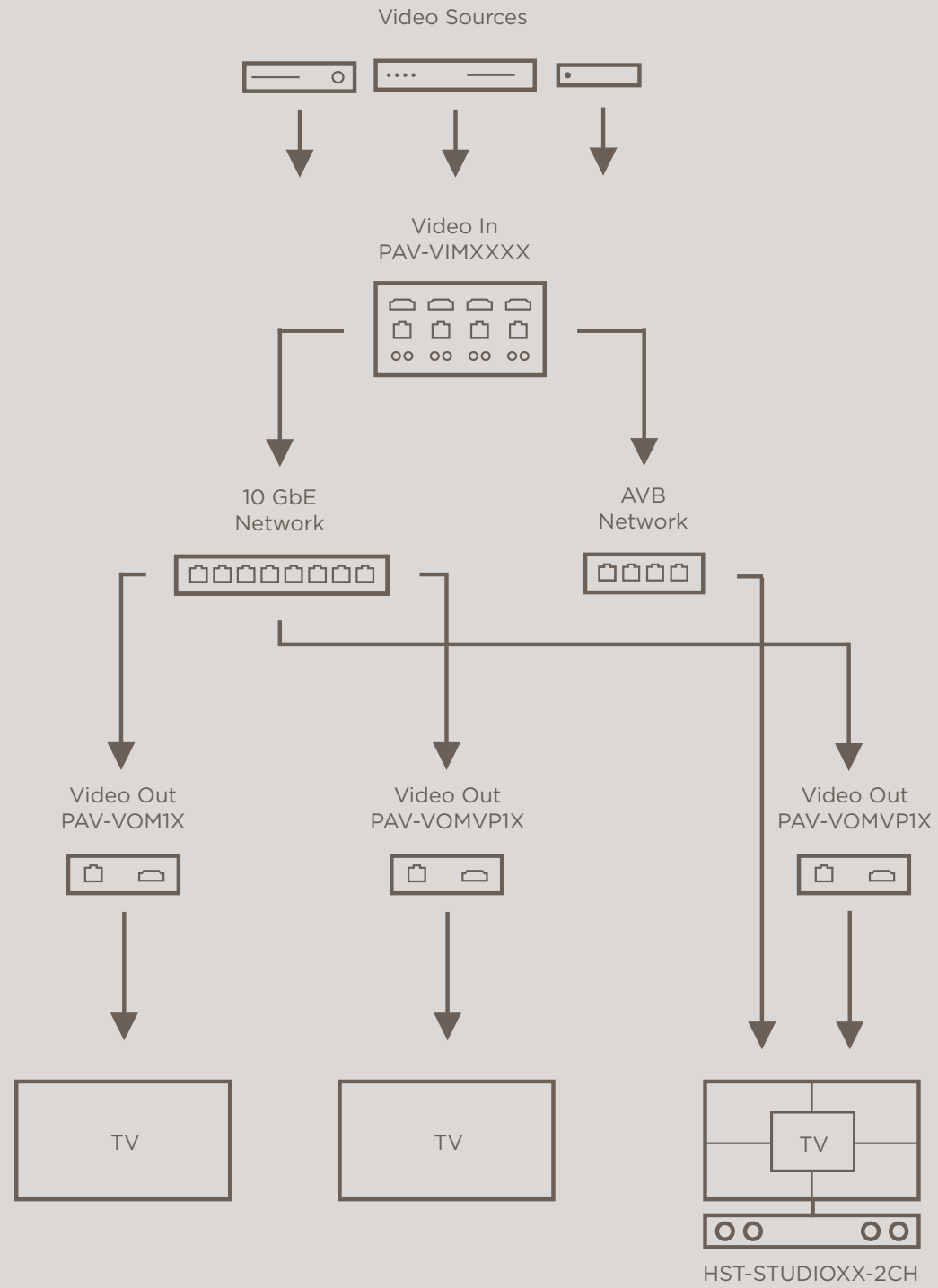


Type	IP Audio Input Transmitter	IP Audio Output Receiver	IP Audio Output Receiver	IP Audio Single In And Out
Model Number	<b>PAV-AIM7C</b>	<b>PAV-AOM8C</b>	<b>PAV-AOMBAL8C</b>	<b>PAV-AIO1C</b>
Connectivity				
Analog Audio Inputs	<b>3</b>			<b>1*</b>
Optical Audio Inputs	<b>2</b>			<b>1*</b>
Digital Coax Audio Inputs	<b>2</b>			
Embedded Music Stream				
Powered Speaker Outputs				
Amplifier Rating				
Pre-amp Analog Outputs (Fixed or Variable)		<b>8</b>	<b>8</b>	<b>1</b>
Pre-amp Optical Outputs (Fixed Only)				
Pre-amp Digital Coax Outputs (Fixed Only)				
IR Control Ports	<b>6</b>			
RS232 Control Ports	<b>2</b>			
GPIO Control Ports		<b>2</b>	<b>2</b>	
Relay Control Ports				
Additional Features				
Expansion	<b>45 Talker Products - 200 Simultaneous Streams - Unlimited Listeners</b>			
AVB Device Type	<b>Talker</b>	<b>Listener</b>	<b>Listener</b>	<b>Talker/Listener</b>
Zone Output Grouping		•	•	•
Audio Sync Delay Adjustment		<b>0-160ms</b>	<b>0-160ms</b>	<b>0-100ms</b>
Adjustable EQ		•	•	•
Installation				
Rack Mountable	<b>With RMB-PAVAM2</b>	<b>With RMB-PAVAM2</b>	<b>With RMB-PAVAM2</b>	
Rack Height	<b>1U</b>	<b>1U</b>	<b>1U</b>	<b>1U</b>
Low Voltage Enclosure Compatible				•
PoE Powered	<b>Optional</b>	<b>Optional</b>		•

\* Analog and Digital Inputs cannot be used at the same time.

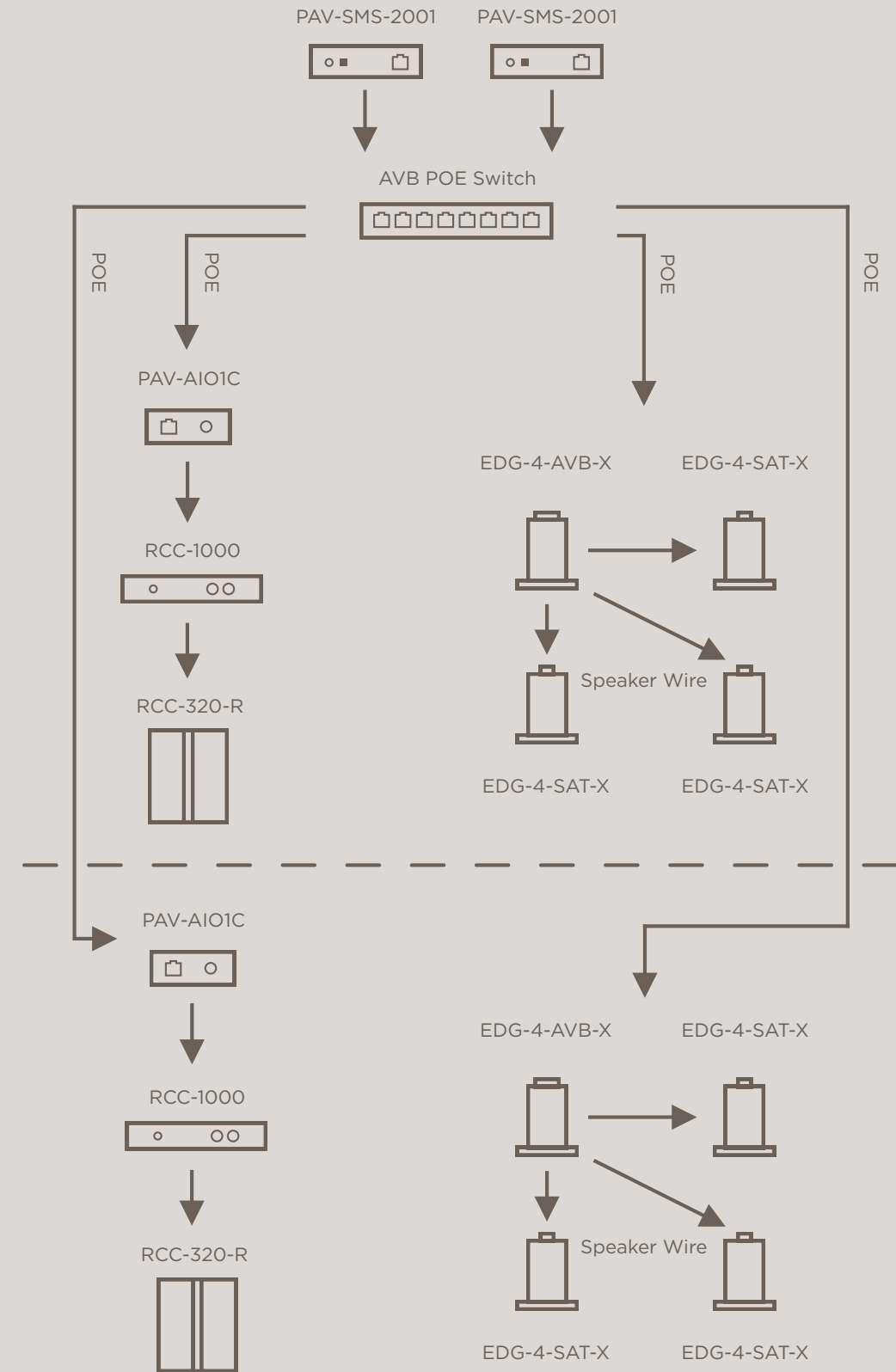
## IP VIDEO ARCHITECTURE

Since its founding in 2005, Savant has leveraged its deep roots in telecommunications switching to deliver an industry leading IP-based distributed entertainment solution. Both Savant IP Audio and Savant IP Video systems convert incoming source material to an IP stream. No matter the size and scope of the project, Savant offers a state-of-the-art plug-and-play entertainment solution that delivers any signal to any room and always in perfect time.



## IP AUDIO ARCHITECTURE

Savant IP Audio utilizes AVB to deliver high-resolution audio directly to Savant IP speakers. Preserving all the warmth and detail of your music, while simultaneously reducing the cost and complexity of distributed entertainment solutions.





## IP VIDEO NETWORKING

Utilizing a 10Gb LAN, Savant's 4K-Over-IP solution will deliver stunning high resolution images over distances up to 1000ft. 10GB Switches are available up to 96 ports.



Type	10GbE Video over IP Switch	10GbE Video over IP Switch	10GbE Video over IP Switch	10GbE Video over IP Switch	10GbE Video over IP Switch
Model Number	M4300-8X8F	M4300-12X12F	M4300-16X/ M4300-24X/ M4300-48X	M4300-24X24F	XSM4396K0-10000S
<b>Connectivity</b>					
SFP+ Ports	8	12		24	Up to 95 + 1 Uplink*
RJ45 Ports	7 + 1 Uplink	11 + 1 Uplink	15 + 1 Uplink/ 23 + 1 Uplink/ 47 + 1 Uplink	23 + 1 Uplink	Up to 95 + 1 Uplink*
Modular Card Slots	2				8
<b>Accessories</b>					
8-port RJ45 Card					APM408C-10000S
8-Port SFP Card					APM408F-10000S
600W Power Supply					APS600W-100NES

\* Using Modular Cards

## IP AUDIO NETWORKING

Savant offers a variety of AVB switches to support a variety of system sizes. AVB switches can be cascaded and located in remotely from one another. Models include PoE++ options for Savant Micro Aperture speakers.



Type	AVB Switch	AVB Switch	AVB Switch	AVB Switch w/ PoE	AVB Switch w/ PoE
Model Number	MOTU-AVB	ESN-AVB12E	ESN-AVB-24E	ESN-AVB12POE	ESN-AVB24POE
<b>Connectivity</b>					
AVB Ports	5	12	24		24
PoE AVB Ports				12	
SFP+ Expansion Ports			4		4

## ACCESSORIES

Savant provides all the accessories necessary for your audio and video distribution system.



**CERTIFIED HDMI CABLES & NETWORK FIBER INTERCONNECT CABLES**  
Savant certified HDMI 2.0 compliant cables available in 1m, 2m, and 3m lengths. Direct-Attach Cables for connecting the video inputs to the 10GbE Network switch. Available in 2m lengths.



**FIBER**  
Cables, tools and testers and connectors - wire for the future with a full line of Savant certified fiber products for IP Video.

**SAVANT**

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