SAVANT

For Product Info

Savant® IP Video 8 or 4 Input Transmitter 4K UHD with Control (PAV-VIM8S/PAV-VIM4S)
Quick Reference Guide

Box Contents

(1)   Audio/Video over IP Switch (PAV-VIM8S-00/PAV-VIM4S-00)
(1)   Installation Kit (075-0192-xx/075-0197-xx)
   (2)   Standard 3U Rack Mounting Brackets (071-0638-xx)
   (4)   M5 x 8 mm Flat-head Phillips Screws (039-0180-xx)
   (1)   Power Cord (064-0079-xx N. America)
      or Power Cord (International can vary)
(16 or 8)   3-pin Control Connectors (028-9351-xx)
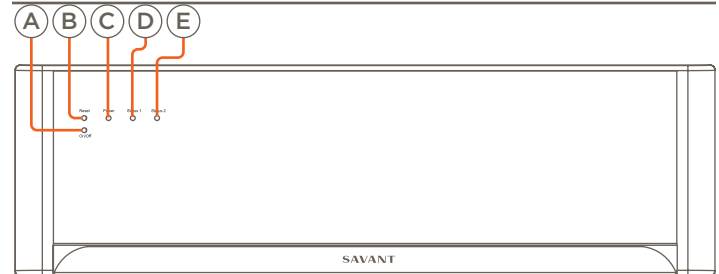(1)   Quick Reference Guide (this document)

Specifications

Environmental

Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 90% Relative Humidity (non-condensing)
Cooling	70 cubic feet per minute (CFM) recommended
BTU	1365 BTU/hr

Dimensions and Weights

Height	5.21 in (132.3 mm)
Width	17.30 in (439.4 mm)
Depth	14.24 in (361.7 mm)
Weight	Net: 14.5lb (6.59 kg)	Shipping 18.25lb (8.27 kg)
Rack Space	3U

Power

Input Power	100-240V AC 50/60Hz, (5A maximum)
Nominal Power	N. America - 144VA - (1.2 A @ 120V AC, 60Hz) International - 156VA - (.68 A @ 240V AC 50Hz)
Maximum Power	N. America - 400VA - (4 A @ 120V AC, 60Hz) International - 432VA - (1.8 A @ 240V AC 50Hz)
Power Cable	IEC320 C13 three-pole detachable power card

Audio

Supported Formats	Pass-though of all HDMI audio formats are supported.

Video

HDR	Supported	
Supported Formats	640x480[5] 720x480[5] 720x576[4] 800x600[5] 1024x768[5] 1280x720[4] 1280x720[5] 1280x1024[5] 1920x1080[1]	1920x1080[3] 1920x1080[4] 1920x1080[5] 1920x1200[5] 3840x2160[1] 3840x2160[2] 3840x2160[3] 3840x2160[4] 3840x2160[5]

1 = at 24 Hz 2 = at 25 Hz	3 = at 30 Hz 4 = at 50 Hz	5 = at 60 Hz

Compliance

Safety and Emissions	FCC Part 15 FC	CE CE	C-Tick	ETL Intertek
RoHS	Compliant			

Minimum Supported Release

Savant OS: da Vinci 8.7

Required Components

Savant Audio/Video over IP Device (PAV-VOMVP1F/PAV-VOMVP1C)
Savant System Host
Savant qualified 10G Managed Network Switch
Savant User Interface
Savant Design and Configuration Tools

Front Panel

	Item	Description
A	On / Off Button	Reboots the main board (mcu) and power cycles the IP Video transmit (Tx) cards
B	Reset Button	**Press and Release** - Resets the IP Video transmit (Tx) cards. **Press and hold** – Clears the network settings. Press and hold button for 5 seconds until Status LED blinks red rapidly; then release.
C	Power LED	**Off** – Device is off. No power applied. **Green** – Main board is powered
D	Status 1 LED	**Blinks Twice** – Provisioned to the local network and is currently connecting to the Host **Rapid Blink (green)** – The reset button was pressed and held for five seconds and the A/V over IP unit is performing a factory reset. All network settings are cleared. **Short Off Blink** – Firmware is updating
E	Status 2 LED	Reserved for future use.

Network Configuration

To ensure that the IP Address will not change due to a power outage, Savant recommends using DHCP reservation within the router. By using this method IP Addresses for all devices can be managed from a single UI, avoiding the need to access devices individually.

NOTE: Setting DHCP reservation varies from router to router. Refer to the documentation for the router to configure DHCP reservation.
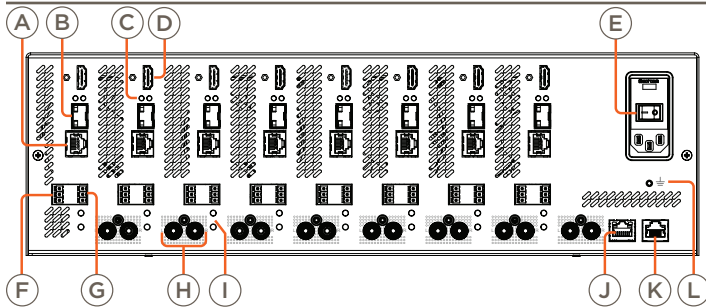
Network Requirements

The A/V over IP device requires a Savant qualified 10G managed switch. This switch must be configured for the A/V over IP devices. For more information on this see the **Savant Audio/Video over IP Network Configuration Guide** on the **Savant Customer Community**.

Installation

The Savant Audio/Video over IP 8-Port / 4-port Transmitter chassis can be mounted using the included rack mounting ears and hardware in a 3U rack style enclosure and is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack mounts. For more information see the **Savant Audio/Video over IP Deployment Guide** on the **Savant Customer Community**.

Rear Panel

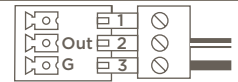| Item		Description
(A)	1 Gigabit Ethernet	1G of reserved network data bandwidth commonly used to connect any network compliant device to transmit its data onto the Ethernet network by sharing the 10G network link. 8-Pin RJ-45 female connection. **IMPORTANT!**: Do not connect these ports to a network switch.
(B)	10 Gigabit Ethernet	SFP+ Housing; Used for connectivity to the 10G Ethernet Network Switch **IMPORTANT!**: For all 10G connections, use only Savant certified SFP+ Direct-Attach Copper (DAC) cables, or Savant certified fiber and fiber connectors along with Savant certified SFP+ modules.
(C)	Rx/Tx LEDs (10 GbE)	**Rx** – Link Activity LED indicator for all data received on the 10G connection **Tx** – Link Activity LED indicator for all data transmitted from the 10G connection
(D)	HDMI In	19-Pin Type A HDMI female digital audio/video input. Supports HDMI 2.0a HDMI 2.0 compliant cable is required for 4K content.
(E)	Power Input Module	100-240V AC 5A 50/60Hz power input module with On/Off switch. I – Applies power to the device. O – Removes power to the device. **NOTE**: Includes a field replaceable 5A 250V Fast acting fuse.
(F)	RS-232 Control Port	**RS232** – 3-pin Screw down plug-in connection. Transmits and receives serial data to and from serial controllable devices. For pin-out information, refer to the RS-232 Wiring section below.
(G)	IR Control Port	**IR** - 3-pin Screw down plug-in connection. Transmits IR signals via an IR Flasher (5V tolerant) to devices with an IR input or IR receiver. For pin-out information, refer to the IR Wiring section below.
(H)	Analog Audio Out	RCA Analog Audio Output. Requires HDMI input stereo PCM audio format. Direct Line Level 2.1-V_{RMS} Output
(I)	Push Buttons	Push buttons – Reserved for future use.
(J)	Ethernet	8-Pin RJ-45 female connection. Used to communicate with the Savant System Host.
(K)	Reserved	8-Pin RJ-45 female connection; Reserved for future use
(L)	Grounding	Chassis Ground (optional)

Additional Information

Refer to the following documents located on the **Savant Customer Community** for additional information.
– Savant Video over IP Deployment Guide (009-1551-xx)
– Savant Video over IP Network Configuration Guide (009-1552-xx)

Wiring and Connections

IR Wiring

IR connections are made using a 3-pin Control Connector supplied with the device. The wire slips into the hole and locks with a screw located at the top of the connector.


IMPORTANT: IR Wiring Precautions
Ensure that all IR emitters are within 15 feet (4.6 meters) from the controller's location. Use of 3rd party blinking IR emitters with Talk Back is not recommended. These types of emitters can draw voltage away from the IR signal that can degrade IR performance.

PIN 1	Not Used
PIN 2	IR +
PIN 3	IR -

RS-232 Wiring

Serial control connections are made using a 3-pin Control Connector supplied with the device. The wire slips into the hole and locks with a screw located at the top of the connector.
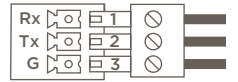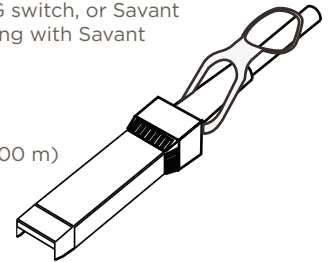

PIN 1	Receive
PIN 2	Transmit
PIN 3	Ground

SFP+ 10 GbE

Enhanced small form-factor pluggable connection. Use a Savant certified Direct Access Copper (DAC) SFP+ cable to connect the chassis to the 10G switch, or Savant certified fiber and fiber connectors along with Savant certified SFP+ modules.

Transport Distance
| DAC cable	6 ft (2 m)
OM3 multi-mode Fiber	1000ft (300 m)

Replace the Fuse

ELECTRIC SHOCK HAZARD: Disconnect the unit from AC power by removing the power cord from the AC outlet and the unit before replacing the fuse.
IMPORTANT: The orientation of the cartridge within the unit and location of the fuse within the cartridge are crucial to proper operation. Make note of the orientation of the cartridge and the fuse location within the cartridge before removing.
1. Disconnect the unit from AC power by removing the power cord.
2. Open the fuse cover on the AC power input using a flat head screwdriver or similar thin flat head tool. This will allow access to the fuse cartridge.
3. Using a flat head screwdriver or similar thin flat head tool, gently loosen the cartridge and pull the cartridge out of the unit slowly. As the cartridge is removed, make note of the orientation, as it is important to proper operation.
TIP: Mark the chassis and fuse holder with a marker in order to align when replacing.
4. Remove the old fuse from the cartridge and discard.
5. Gently place the new fuse in the cartridge and place the cartridge part way into the receptacle aligning it as defined in the diagram.
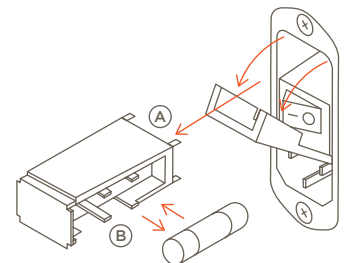
(A) **Connection Pins Towards Unt**
(B) **Open Side of Cartridge Towards Power Switch**

6. Gently press on the cartridge the rest of the way until it seats into the terminals at the rear of the slot.
NOTE: If any resistance is encountered during seating the cartridge, DO NOT apply more pressure. Stop pressing on the cartridge, remove it, verify the orientation, and repeat step.

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