SAVANT

Savant ProAV Single Port 4K UHD Video Output IP Receiver with Video Processing and Control (PAV-VOMVP1F/PAV-VOMVP1C)
Quick Reference Guide

Box Contents

(1) Audio/Video Over IP Receiver (PAV-VOMVP1F/PAV-V0MVP1C)
(1) SFP+ module (PAV-VOMVP1F only)
(1) Installation Kit (075-0199-xx)
    (2) Mounting Brackets
    (4) Screws
    (1) IR Emitter (4ft long)
    (1) Power Cord
    (1) Power Adapter
    (1) 4-pin Control Connector
(1) Quick Reference Guide (this document)
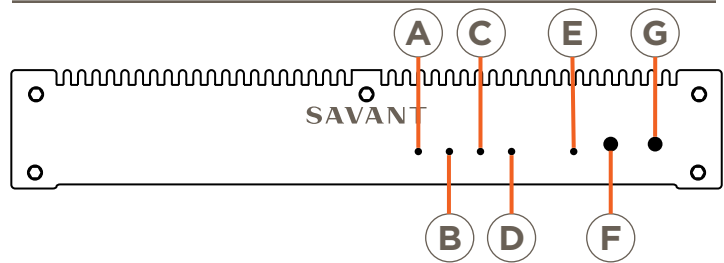
Specifications

Environmental	
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 90% Relative Humidity (non-condensing)

Dimensions and Weights	
Height	1.38 in (35.0 mm)
Width	8.27 in (210.0 mm)
Depth	5.47 in (139.0 mm)
Weight	Net: 3.3lb (1.5 kg) | Shipping 4.8lb (2.2 kg)

Power	
Input Power	12V 3A DC
Nominal Power	16 W (PAV-VOMVP1F) 19 W (PAV-VOMVP1C)
Maximum Power	36 W (PAV-VOMVP1F) 36 W (PAV-VOMVP1C)

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
RoHS	Compliant		

Required Components

Savant Audio/Video Over IP Device (PAV-VIM8S/PAV-VIM4S)
Savant System Host
Savant qualified 10G Managed Network Switch
Savant User Interface
Savant Design and Configuration Tools

Front Panel

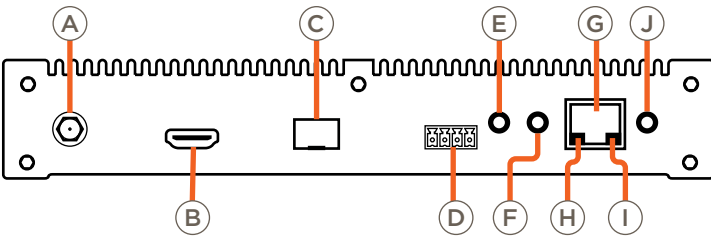|	Item	Description
A	RSVD LED	Reserved for future use. **Blue** - LED on by default.
B	Link TX LED	**Off** - No valid connection **Blue** - Valid link **Blinking** - Sending Ethernet Data
C	Link RX LED	**Off** - No valid connection **Blue** - Valid link **Blinking** - Receiving Ethernet
D	Video LED	**Off** - No video signal detected. **Blue** - Video signal detected.
E	Power LED	**Off** - Device is off. No power applied. **Red** - Main board is powered
F	P1	Reserved for future use.
G	RSVD	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**.

Rear Panel

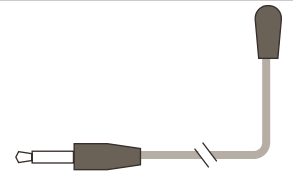| Item		Description
A	Power Input	12V DC
B	HDMI Out	19-Pin Type A HDMI female digital audio/video output. Supports HDMI 2.0a HDMI 2.0 complaint cable required for 4K content.
C	Optical In or 10 GbE	10G input from the Audio/Video over IP switch. SFP+ (PAV-VOMVP1F) RJ-45 (PAV-VOMVP1C)
D	RS-232	4-pin Control Connector. Transmits and receives serial data to and from serial controllable devices. For pin-out information, refer to the RS-232 Wiring section below.
E	IR OUT	3.5 mm IR Emitter connection. Transmits IR signals via an IR Flasher (5V tolerant) to devices with an IR input or IR receiver
F	IR IN	Not Used
G	LAN (C)	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 this port to a network switch.
H	Link LED	**Solid Orange** - Link is established. **Off** – No link established
I	Link Activity LED	**Green Blinking** - Indicates data activity. **Off** – No Activity
J	Audio Out	3.5 mm Analog Audio Output. Requires HDMI input PCM audio format for any input source not routed through a DSP capable switching device. Direct Line Level 2.1 VRMS Output. IMPORTANT! Support for this port requires da Vinci 8.9 or higher.

Additional Information

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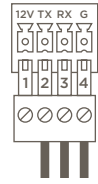
Wiring and Connections

IR Wiring

IR connection are made using 3.5 mm IR Emitter supplied with the device.

RS-232 Wiring

Serial control connection are made using a 4-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	12V Do Not Use
PIN 2	Transmit
PIN 3	Receive
PIN 4	Ground

Optical In (PAV-VIMVP1F)

Enhanced small form-factor pluggable connection. Duplex LC Multi-mode OM3 Fiber required.

Transport Distance
OM3 multi-mode fiber	1000ft (300m)

10 GbE (PAV-VOMVP1C)

RJ-45 10G Ethernet connection.

Transport Distance
Cat6	100ft (30m)
Cat6a	300ft (100m)
Cat7	300ft (100m)

Installation

The Savant Audio/Video over IP Receivers can be mounted with the included mounting brackets. If installing this unit behind a display, ensure enough air can pass though the grooves on the top of the unit. This will maximize heat dissipation. Savant recommends aligning the grooves vertically as shown below. For more information see the **Savant Audio/Video over IP Deployment Guide** on the **Savant Customer Community**.

Power Input   HDMI Output   10G Input