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Savant[®] ProAV 7 Source Audio Input IP Transmitter with Control (PAV-AIM7C) Quick Reference Guide

Box Contents

- (1) 7 Source Audio Input IP Transmitter (PAV-AIM7C-xx)
- (1) Installation Kit (075-0194-xx)
 - (2) 6-pin Control Connector (028-9352-xx)
 - (1) 5V DC 3A Power Supply (025-0216-xx)
- (1) Product Regulatory Statement (009-1950-xx)

Specifications

Environmental					
Temperature	32° to 104°	32° to 104° C (0° to 40° C)			
Humidity	10% to 80% Relative Humidity (non-condensing)				
Dimensions and	Weight				
	Height	Width	Depth	Weight	
Device	1.6 in (4.15 cm)	8.5 in (21.50 cm)	3.7 in (9.33 cm)	1.4 lb (0.64 kg)	
Shipping	2.2 in (5.58 cm)	12.0 in (30.48 cm)	7.3 in (18.54 cm)	2.3 lb (1.05 kg)	
Power					
Input	5V DC 3A				
Maximum	15 Watts				
Power over Ethernet (PoE)	(PAV-AIM7C-10 and -20 Only) IEEE 802.3af				
Networking					
Supported Standard	IEEE 802.1 AVB/TSN switches IEEE 802.3 Ethernet				
Regulatory					
Safety and Emissions	FCC Part 1		C-Tick		
RoHS	Compliant				
Supported Releases					
PAV-AIM7C-00 PAV-AIM7C-10	da Vinci 8.10.2 and higher				
PAV-AIM7C-20	da Vinci 9.4	da Vinci 9.4.3 and higher			

Network Requirements

For networking guidelines and recommendations, refer to the **Savant Device Networking Guidelines** available on the **Savant Community Knowledge Base**.

Front Panel



A)	Power LED	normany.
\bigcirc		Off: System is not receiving power.
B	Status LED	Off : Embedded processor is resetting, or is powered up, and is booting the embedded firmware.
		Green : Host has established communications with the embedded system.
		Green Blinking : Embedded system is ready, but no communication has been established with the host.
		Red : Host has determined the firmware needs to be updated, but a problem occurred during the process that will initiate a reset.
		Red Blinking : Embedded firmware is running, but has not received a DHCP IP Address.
		Amber: Host is updating the embedded firmware.
		Amber Blinking: Embedded system has a valid link-local IP Address and is connecting to the host.

Installation

The PAV-AIM7C should be installed on a solid, flat, level surface. The device will fit on a 1U rack shelf. The location should be dry, well ventilated, and out of direct sunlight.

IMPORTANT! The PAV-AIM7C must to be connected to an AVB Switch. A Savant AVB audio output device is also required.

Rack

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The optional RMB-PAVAM2F-xx or RMB-PAVAM2-xx allows two devices to be mounted side by side. This rack is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack mounts.

The instructions below show the RMB-PAVAM2F-xx, both brackets install the same way, face opposite directions.

- 1. Align the bracket with the device's mounting points.
- 2. Attach using the screws provided with the bracket.



Rear Panel



IR Wiring

IR connections are made using 6-pin control connectors supplied with the device. The wire slips into the hole and locks with a screw located at the top of the connector.

1+-2+-3+	Pin 1	IR 1 -
	Pin 2	IR 1 +
	Pin 3	IR 2 -
	Pin 4	IR 2 +
	Pin 5	IR 3 -
	Pin 6	IR 3 +
	Use white stripe for positive (+)	

IMPORTANT: IR Wiring Precautions

Ensure that all IR emitters are within 15 feet (4.6 meters) from the controller's location.

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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.

NOTE: While not shown in the diagram above, IR connections 4 to 6 follow the same wiring as 1 to 3.

RS-232 Connections

Pins 7 and 8 are only required Pin 1 No Connection for CTS/RTS handshaking. Pin 1 Pin 8 Pin 2 No Connection Pin 3 No Connection **IMPORTANT:** When wiring to this port, do not connect any Pin 4 GND (RS-232) wires within the cable that Pin 5 RXD (RS-232) are not required for Pin 6 TXD (RS-232) communication. **RJ-45** Connector Pin 7 (RS-232) CTS (Gold pins facing up) NOTES: Pin 8 RTS (RS-232) CTS/RTS handshaking is supported for flow control based on the profile used in the configuration. Wire coloring is included to identify the pins used for this connection. Colors shown do not represent any wiring standard. The ProAV 7 Source does not support RS-422/485. RJ-45 TO DB9 ADAPTERS: Savant offers RJ-45 to DB9 adapters in a

variety of configurations that can be used for RS-232 control.

Refer to the RS-232 Conversion to DB9 and Pinout Application Note located on the Savant Customer Community for more information on RJ-45 to DB9 adapters.

Expansion

Savant AVB devices can be connected in a single system, providing a virtual audio switch that can be configured to suit almost any need. The maximum number of devices verses based on the active da Vinci runtime.

Additional Documentation

Refer to the following documents located on the Savant Customer Community for additional information.

- Savant IP Audio Deployment Guide (009-1571-xx)