SAVANT

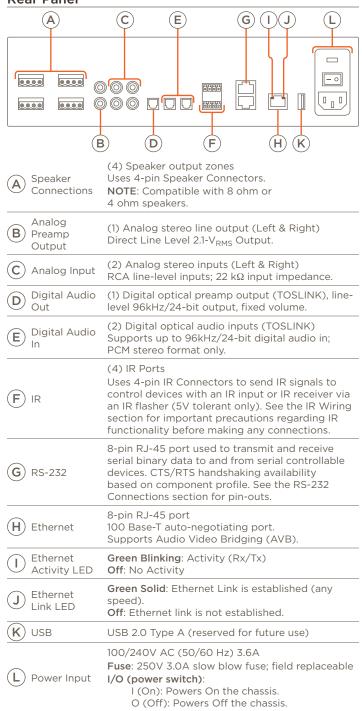
Savant[®] IP Audio 50 with Savant Music (PAV-SIPA50SM / PAV-SIPA50SMV2) Quick Reference Guide

Box Contents Front Panel Savant IP Audio 50 (PAV-SIPA50SM-xx / PAV-SIPA50SMV2-xx) (1) (\mathbf{A}) (**B**) (C) (D) (E) (F) (\mathbf{G}) Enclosure Bracket (071-1103-xx) (2)(1)2U Rack Bracket (071-1102-xx) Power Cord (064-0079-xx) (1)(4) #10x1/2 Screw (039-0405-xx) 1 (4) Push Rivet (039-0406-xx) (6) M4 Screw (039-0403-xx) SAVANT (4) 4-pin Speaker Connector (028-0702-xx) (2)4-pin IR Connector (028-0703-xx) (4) Rubber Feet (074-0655-xx) (4) M3 Feet Screw (039-0407-xx) Product Regulatory Statement (009-1950-xx) (1) Green: System has power and is operating Specifications normally Environmental (A) Power LED Red: System is in standby mode and most of the controller circuitry is powered down. 32° to 104° F (0° to 40° C) Temperature Off: System is not receiving power. 10% to 80% Relative Humidity Green Blinking: Embedded system is ready, but Humidity (non-condensing) no communication has been established with the host. Maximum BTU 750 BTU/HR Green: Host has established communications Dimensions with the embedded system. Red Blinking: Embedded firmware is running, but Width Height Depth Weight has not received a DHCP IP Address. Red: Host has determined the firmware needs to 14.17 in 3.03 in 12.00 in 10.6 lb Device be updated, but a problem occurred during the (7.69 cm) (30.5 cm) (36.0 cm) (4.81 kg) process that will initiate a reset. Amber Blinking: Embedded system has a valid Shipping 8.27 in 15.55 in 19.41 in 15.1 lb link local IP Address and is connecting to the (21.0 cm) (39.5 cm) (49.3 cm) (6.83 kg) (**B**) Status LED host. Rack Space 2U Amber: Host is updating the embedded firmware. Power Off: Embedded processor is resetting, or is powered up, and is booting the embedded Input Power 100/240V AC (50/60 Hz) 3.6A firmware. Hardware Failure: If a hardware failure occurs, Maximum Power 225W the status LED indication will be interrupted every three seconds with a solid red indication. **Operating Parameters** For example, if the LED is blinking green when a 50 WPC at 8 ohms (THD+N < 0.1%) Rated Power hardware failure occurs, the LED will (Speaker Output) 70 WPC at 8 ohms (THD+N < 1.0%) alternate between blinking green and solid red at three-second intervals. Frequency 20 Hz - 20 kHz +/- 0.5 dB, speaker output Response Green: RS-232 serial port activity. \mathbf{C} RS232 LED Off: No RS-232 serial port activity. Signal-to-Noise >95 dB, speaker output Ratio (SNR) Green: IR port signal activity. (\mathbf{D}) ir led Off: No IR port activity. Supported Digital 44.1 kHz / 48 kHz / 96 kHz at 16-bit / 20-bit / Input Formats 24-bit resolution On: Fully enables all internal power rails and processor. Networking Off: Disables most internal power rails and Supported IEEE 802.1 AVB/TSN switches processor, but not internal AC/DC power supply. Standard IEEE 802.3 Ethernet Hold On/Off button for about 5 seconds to place On/Off into standby mode. The Power LED turns red. (E) Regulatory Button Hold On/Off button for about 1 second to take system out of standby mode. The I/O power FCC Part 15B CE Mark C-Tick UL CUL U Safety and switch on the back of unit must be On (I) to UK (ϵ) \land FC Emissions enable this function. To turn the power off for the entire system, press the I/O power switch on the rear panel to Off [O]. RoHS Compliant Resets the network. Supported Releases Hold Reset Button for 5 seconds while powered (F)Reset Button PAV-SIPA50SM-xx da Vinci 8.8 and higher Onto clear network settings. Status LED will rapidly blink red when reset is complete. PAV-SIPA50SMV2-xx da Vinci 9.4.2 and higher Red: Protection mode has been enabled to **Music Streaming** protect a zone/channel; typically indicates Zone (**G** thermal protection, clipping or over current. The Savant IP Audio 50 has a built-in single stream of Savant Music for easy Protection Off: Zone is off and protection mode has not access to popular music streaming services. (Streaming service fees may been enabled (.vlgga

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Rear Panel



Network Requirements

For information on network requirements, refer to the Savant Device Networking Guidelines on the Savant Community.

Expansion

Up to sixteen Savant IP Audio devices can be connected in a single system, providing a virtual audio switch that can be configured to suit almost any need.

RS-232 Connections

Pins 7 and 8 are only required Pin 1 Pin 8 for CTS/RTS handshaking.

IMPORTANT: When wiring to this port, do not connect any wires within the cable that are not required for communication.



Pin 1	No Connection
Pin 2	No Connection
Pin 3	No Connection
Pin 4	Ground (GND)
Pin 5	Receive (RXD)
Pin 6	Transmit (TXD)
Pin 7	Clear to Send (CTS)
Pin 8	Request to Send (RTS)

(Gold pins face up)

NOTES

- 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 IP Audio 125 does not support RS-422/485.

RJ-45 to DB9 Adapter: 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.

IR Wiring

IR connections are made using 4-pin IR 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+	Pin 1	IR 1 -
	Pin 2	IR 1 +
	Pin 3	IR 2 -
	Pin 4	IR 2 +
2000		

Use white stripe

IMPORTANT: IR Wiring Precautions

for positive (+) 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.

NOTE: While not shown in the diagram above, IR connections 3 to 4 follow the same wiring as 1 to 2.

Speaker Connections

Speaker wiring connections are made using 4-pin Speaker Connectors supplied with the device. The wire slips into the hole and locks with a screw located at the top of the connector. Speaker connectors accept up to 12AWG speaker cable.

Zone 1	Pin 1	Right -		
000	Pin 2	Right +		
- R + - L +	Pin 3	Left -		
	Pin 4	Left +		
0000				
• • • •	Use	white stripe		
	for positivo (+)			

NOTES:

Wire order shown does not represent any wiring standard. It may be different than other models.

While not shown in the diagram above, Zones 2 to 4 follow the same wiring as Zone 1.

Replace the Fuse

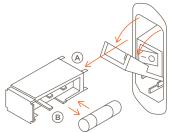
ELECTRIC SHOCK HAZARD: Disconnect the unit from AC power by removing the power cord from the AC outlet and the unit before replacing the fuse.

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 cartridges.
- 3. Using a flat head screwdriver or similar thin flat head tool, gently loosen the cartridge and pull both cartridges out of the unit slowly. As each 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.

- Inspect both fuses and remove either or both if damage is suspected.
- Gently place the new fuse(s) in the cartridge and place the cartridge part way into the receptacle aligning it as defined in the diagram.
- 6. Gently press on the cartridge the rest of the way until it seats into the terminals at the rear of the slot.



(A) Connection Pins Towards Unit

(B) Open Side of Cartridge Towards Power Switch

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.

Installation

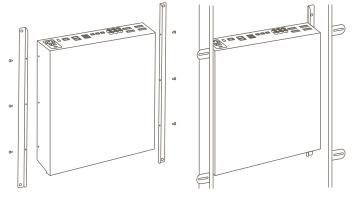
Rack Installation

The Savant IP Audio 50 device can be mounted in a 2U rack style enclosure and is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack mounts. The 2U Rack Bracket needs to be attached prior to mounting. See Savant IP Audio Deployment Guide for more information.



Enclosure Installation

The Savant IP Audio 50 device can be mounted to a Structured Media Enclosure. The Enclosure Brackets need to be attached prior to mounting. For proper ventilation, louvered enclosure doors are recommended. See the Savant IP Audio Deployment Guide for more information.



Additional Documentation

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

- Savant IP Audio Deployment Guide (009-1571-xx)
- Savant Media Server/Savant Music Supported Streaming Services Application Note

The Spotify Software is subject to third party licenses found here: https://www.spotify.com/connect/third-party-licenses.