SAVANT

Savant® ProAV 16 Channel Balanced Audio Output IP Receiver with Control (PAV-AOMBAL8C)

Quick Reference Guide

Box Contents

- 16 Channel Balanced Audio Output IP Receiver (PAV-AOMBAL8C-xx)
- (1) Installation Kit (075-0204-xx)
 - (8) Stereo Connectors (028-9347-xx)
 - (2) 3-pin Control Connector (028-9351-xx)
 - (1) 5V 3A Multi-Blade Power Supply (025-0223-xx)
- (1) Product Information and Regulatory Insert (009-1950-xx)

Specifications

Environmental	
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 80% Relative Humidity (non-condensing)
Dimensions and Weigh	nt
Height	1.6in (41.5 mm)
Width	8.5in (215.0 mm)
Depth	3.7in (93.3 mm)
Weight	Net: 1.4lb (0.64 kg) Shipping: 2.3lb (1.05 kg)
Power	
Power Supply	5V DC 3A Multi-Blade
Maximum Power	15 watts
Power over Ethernet (PoE)	(PAV-AOMBAL8C-10 Only) IEEE 802.3af
Networking	
Supported Standard	IEEE 802.1 AVB/TSN switches IEEE 802.3 Ethernet
Regulatory	
Safety and Emissions	FCC Part 15 CE C-Tick
RoHS	Compliant
Supported Releases	
PAV-AOMBAL8C-00	da Vinci 8.10.2 and higher
PAV-AOMBAL8C-10	da Vinci 8.10.2, 9.3.4 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

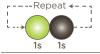
Green: System has power and is operating normally.

Off: System is not receiving power.

Off: Embedded processor is resetting, or is powered up, and is booting the embedded firmware.

Green: Host has established communications with the embedded system.

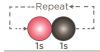
Green Blinking: Embedded system is ready, but no communication has been established with the host.



Red: Host has determined the firmware needs to be updated, but a problem occurred during the process that will initiate a reset.

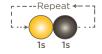


Red Blinking: Embedded firmware is running, but has not received a DHCP IP Address.



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-AOMBAL8C 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-AOMBAL8C must to be connected to a AVB Switch. Also a Savant AVB audio input device is required.

Rear Panel

Ethernet

Ethernet

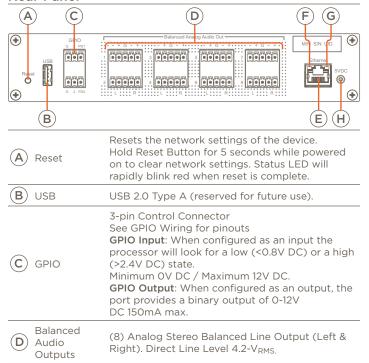
Ethernet

Link LED

G

Activity LED

Power Input



8-pin RJ-45 port

Off: No Activity.

5V DC 3A Multi-Blade

Link/Activity LEDs.

10/100/1000 Base-T auto-negotiating port with

Supports Power over Ethernet (PoE). Supports Audio Video Bridging (AVB).

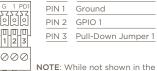
Green Solid: Ethernet Link is established.

Green Blinking: Activity (Rx/Tx).

Off: Ethernet link is not established.

GPIO Wiring

General Purpose Input/Outputs
(GPIO) are binary I/O ports used
on Savant controllers to trigger an
action within the system. Events
can control a device, such as turning
on an amplifier (output) or detecting
a state change for a device (input) to
perform a workflow. Pin 2 is used for
input or output depending on configuration.



NOTE: While not shown in the diagram above, GPIO 2 follows the same wiring as GPIO 1.

GPIO Pull Down Resistor (PD) Usage

GPIO pins are configured as inputs and are pulled high to 12V while the host is booting up. To make the GPIO signal low during a host reboot and/or a power cycle, attach the GPIO 1 pin to the PD pin. The PD pin is a 1K ohm pull down resistor (to signal ground) which keeps the GPIO output below 0.8V during processor boot times.

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 varies based on the active da Vinci runtime.

Additional Documentation

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

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