The Savant 8-Channel Digital Audio Amplifier (AMP-8125) Quick Reference Guide provides all the steps necessary to set up the AMP-8125.

**Box Contents**
(1) AMP-8125
(1) Installation Kit (075-0142-xx)
(2) 1U Rack Mounting Brackets (071-0715-xx)
(4) Screws for Rack Mounts (039-0236-xx)
(6) Torx Screws for Brackets (039-0237-xx)
(1) Torx, Wrench (071-0755-xx)
(4) Plastic Feet (074-0445-xx)
(4) Phillips Screws for Plastic Feet (039-0238-xx)
(4) 4-position Phoenix-style Connectors for audio output (028-0454-xx)
(1) 3-position Phoenix-style Connector for Trigger I/O (028-0455-xx)
(1) Power cord (3 feet) (N. America) (064-0333-xx) or appropriate international power cord
(1) Quick Reference Guide (this document)

**Specifications**

**Environmental**
- Temperature: 32° to 95°F (0° to 35°C)
- Humidity: 10% to 80% Relative Humidity (non-condensing)
- Cooling: 34 cubic feet per minute (CFM) recommended.
- BTUs: 650 BTUs per hour

**Dimensions and Weight**
- Height: 1.70 in/4.50 cm
- Width: 17.30 in/43.94 cm
- Depth: 14.9 in/37.88 cm
- Weight: 9.2 lb/4.2 kg
- Rack Space: 1U

**Power**
- Input Power: 100-240V AC, 50/60 Hz
- Nominal Power: 190 watts

**Operating Parameters**
- Output Power: 125W RMS/channel@8 ohms from 20Hz - 20kHz (all channels driven)
- Frequency Response: 20Hz - 20kHz +0dB/-1.5dB
- Total Harmonic Distortion (THD): <0.05%, 20Hz - 20kHz (At Full Rated Power)
- Signal-to-Noise Ratio (SNR): >105dB ref: full power (a-weighted)
- Crosstalk: < -70dB @ 1kHz
- Input Sensitivity: 1.12 volts for 125 watts out in 8 ohms
- Gain: 29dB
- Input Impedance: 100K ohms (typical)
- 12V DC Trigger Signal: Current = 0.12 mA

**Compliance**
- Safety and Emissions: FCC Part 15 | CE | CAN/CSA | C-Tick
- RoHS: Compliant

**Installation Considerations**

The AMP-8125 should be installed on a solid, flat, level surface such as a table or shelf using the four plastic feet that are shipped with the product. The AMP-8125 can also be installed in a standard 19-inch equipment rack using the rack-mount brackets included with the product. Select a dry, well ventilated location out of direct sunlight.

If multiple AMP-8125s are rack mounted together, it is acceptable to "flat stack" them one atop the other in adjacent rack spaces without additional ventilation spaces left in between them. However, in some installations or in heavy usage scenarios where multiple channels are consistently driven at high outputs for long periods of time, it might be necessary to leave one empty rack between the amplifiers in order to assist with heat dissipation and prevent thermal protection due to overheating.

**Cable and Wire**

The AMP-8125 connects to your Savant multi-room audio solution via shielded line level audio cables with RCA Audio Output connectors. Use high quality RCA cables to connect the multi-room audio to the amplifier inputs.

The AMP-8125 connects to your speakers using 2-conductor speaker wire. For most applications, Savant recommends using 16 or 18 gauge wire. For wiring runs longer than 80 feet Savant recommends using 14-gauge wire. Each channel features a removable screw terminal speaker connection for easy installation in tight spaces. The terminal connector can accommodate up to 14-gauge stranded speaker wire.

**Power Outage Considerations**

If there is a power outage and an external device is used to trigger the AMP-8125, the amplifier will be in the OFF state when the power is restored. The standby button must be pressed to restore power.

If there is a power outage and the standby button is used to operate the AMP-8125, the amplifier will be in standby mode. If a trigger input is being used, it will override the Power Save function.

**NOTE:** The Power Save function can only be used when operating the AMP-8125 from the front panel standby button. If a trigger input is being used, it will override the Power Save function.

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Speaker Wire Connections

- **Warning:** Never make or break connections to the AMP-8125 unless the AMP-8125 and all associated components are powered off.

- **Caution:** Do not connect the outputs of one channel to the outputs of other channels or to other amplifiers.

Speaker Outputs

It is recommended to use 16-gauge or larger speaker wire in order to ensure low-impedance connections between the amplifier and speakers. Be sure to observe correct polarity when making connections to speakers: Positive (+) leads to the Positive (+) terminals and Negative (-) leads to the Negative (-) terminals.

- **Caution:** The speaker outputs on the AMP-8125 are balanced (differential) and should not be connected to any equipment that groups the Negative (-) terminals.

Trigger Cable

The Trigger In and Out connections can be used to activate or deactivate the standby mode of the AMP-8125 from devices such as remote control systems, preamps or other external devices. The Trigger In and Out connections are duplicated for both 1/8" inch (3.5mm) mini-plug and phoenix-style connectors. Use the Trigger In for making connections to external control devices that will activate and deactivate the AMP-8125 standby mode. The Trigger Out does not provide DC power on its own, but can be used for making Trigger In dry-contact connections to additional AMP-8125 amplifiers or other components that need to mimic the AMP-8125 power state.

- **Note:** When a remote trigger is connected it will override the front panel standby button operation.

Trigger Cable Installation

1. Power the controlling source and the AMP-8125 amplifier off.
2. Connect the trigger cable to the controlling source and the AMP-8125 amplifier.
3. Power up the controlling source and the AMP-8125 amplifier.
4. Verify the trigger is working by putting the unit into standby mode. The AMP-8125 amplifier will also go into standby mode and the power indicator will light up.
5. Once trigger cable operation is verified, only use the source unit to power on and off the AMP-8125.

- **Warning:** When installing the trigger cable, never have the controlling source or AMP-8125 amplifier powered on. Doing so will cause the trigger device to work improperly and could cause damage to both the source and amplifier.

AC Main Power Connector

After all audio and system connections have been made, connect the power cord to an AC power source. Be sure that any device connected to the remote trigger input is powered off when connecting the AMP-8125 power cord to an AC outlet.

- **Warning:** Do not plug the AMP-8125 directly into the “swatched accessory” outlet of another device! These outlets are intended for use with low current draw products such as turntables, CD players, Blu-ray players and other similar devices. These outlets are not designed to handle the high current draw of a power amplifier. Using these outlets for a power amplifier is a significant safety hazard.

Cleaning and Maintenance

The internal parts of the AMP-8125 are electronic and require no maintenance. Once a year, it is appropriate to twist the RCA connectors on each input to remove any oxidation and improve conductivity. You can clean only with dry cloth. Do not use any spray-type, abrasive cleaners on the amplifier.

Additional Documentation

Additional documentation for the AMP-8145I is available at:

SavantSystems ™ > Dealer Login > Knowledge Base > Products

Click link: RacePoint Blueprint™