



# **XDA-AMP5400RK**

Multi-Room Amplifier (4 Zone, 8 Channel)



## XDA-AMP5400RK Multi-Room Amplifier (4 Zone, 8 Channel)

### Overview

---

**Specially designed for custom integration of whole home audio systems, the “AMP” serves as a companion amplifier for the Yamaha XDA-QS5400RK to expand speaker coverage and/or increase power output. It may also be used to expand secondary zone speaker coverage for Yamaha AV receivers that have Zone pre outs.**

- Works together with Yamaha XDA-QS5400RK to expand speaker coverage in custom integrated multi-room audio systems
- Eight channels of audiophile-grade Class D amplification, bridgeable and 4-ohm capable, featuring a unique ground loop/hum-free circuit design
- Four audio buses and included jumpers allow for wide variety of speaker configurations
- Interlocks power on/off with XDA-QS5400RK via Trigger I/O
- Integration-friendly features include audio sensing inputs, IR I/O and more
- 1U high, rack-wide enclosure; removable rack ears and faceplate included

## Features

# The Perfect Whole Home Audio Companion

### Sonic Soul Mates

The XDA-AMP5400RK – the “AMP” – was conceived as a companion to the Yamaha XDA-QS5400RK as a way to provide additional speaker coverage and/or additional speaker output power in a custom integrated multi-room home audio system. It also pairs nicely with Yamaha AV receivers that offer Zone pre outs.



### Slim Yet Powerful

The AMP packs eight channels of audiophile-grade amplification into a remarkably-slim 1U-high enclosure, allowing you to fully optimize your valuable rack real estate.



### Phenomenal Flexibility

Feed up to four sources from QS pre outs into the AMP – its four audio I/O buses can be patched together to handle a wide array of speaker/zone configurations. The AMP comes with a set of jumper plugs and cables, making it ultra-versatile right out of the box. The audio outs can alternatively be used to connect powered subwoofers or subwoofer amps.

Four audio I/O buses



Versatile setups with attached jumper plugs and cables



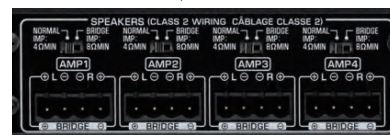
Accessory jumper plugs and cables



### More Power on Demand

Each of the four amplifier zones is also bridgeable, giving you the option to increase power output to select speakers if needed.

XDA-AMP5400RK rear panel

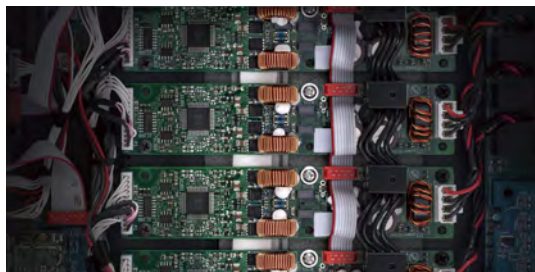


---

# Engineered to Sound Extraordinary

## Audiophile-Grade Amplification

The AMP employs ultra-efficient ICEpower integrated circuits to deliver eight channels of pristine, musically-dynamic digital amplification 50 watts/channel (8 ohms) with an outstanding 5 Hz to 40 kHz (+0/-3 dB) frequency response and 108 dB signal-to-noise ratio. It is 4 ohm capable at 100 watts/channel and bridgeable to 200 watts/channel (8 ohms).



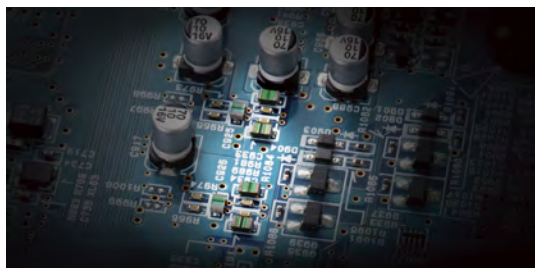
## Goodbye Ground Loop Hum

The curse of the custom integrator: ground loop hum, a common and vexing side effect of connecting a bunch of electronics together in a rack. The AMP takes care of it with a brilliantly-engineered differential circuit design. Sometimes it's what you don't hear that sounds the most amazing.



## High-Performance under the Hood

The AMP employs a balanced audio circuit design and PML capacitors, which are also used in our flagship AVENTAGE AV separates. The result: greater realism and expressiveness for all of your favorite music.



# Custom-Built for Custom

## Versatile Installation

Mount it in a rack with the included ears or remove the ears for shelf installations. The included magnetic faceplate discourages tampering and provides the perfect cosmetic finish.



## Harmonious Control

When a QS and AMP are used together, simply wire the trigger ports to automatically power on/off the desired amplifier zones – no additional control interface is needed. The AMP also works great as a companion to an AVENTAGE AV receiver. When using the AMP with other sources, audio sensing inputs and an infrared I/O provide additional control flexibility.

XDA-QS5400RK rear panel



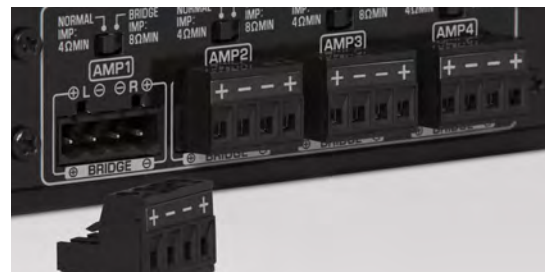
XDA-AMP5400RK rear panel



## Custom-Friendly Connectivity

The AMP is truly made for custom integration, with Euroblock-style speaker connectors and a detachable AC cable for smart connectivity.

XDA-AMP5400RK rear panel





# Specifications

Rear panel



Audio Specifications	Channel	8 Channel (2 channel x 4)
	Minimum Speaker load Capability	4 ohm
	BTL Connection	Yes
	Speaker Output	4 (Euroblock)
	Audio Input Terminal	RCA: 4
	Audio Output Terminal	RCA (2-ch through out): 4
	Trigger In / Out	4 / 4
	Remote In / Out	1 / 1
	Rated Output Power (1 kHz, 0.9% THD, 2ch driven)	Normal (4 / 8 ohms): 90 / 50 W, Bridge (8 ohms): 100 W
	Rated Output Power (1 kHz, 0.9% THD, 1ch driven)	Normal (4 / 8 ohms): 100 / 50 W, Bridge (8 ohms): 200 W
	Dynamic Power (20 Hz-20 kHz, 0.08% THD, 2ch driven, 20 ms burst)	Normal (4 / 8 ohms): 80 / 40 W, Bridge (8 ohms): 150 W
	Dynamic Power (1 kHz, 0.9% THD, 2ch driven, 20 ms burst)	Normal (4 / 8 ohms): 100 / 50 W, Bridge (8 ohms): 200 W
	Dynamic Power (1 kHz, 0.9% THD, All ch driven, 20 ms burst)	Normal (4 / 8 ohms): 80 / 50 W, Bridge (8 ohms): 170 W
	Maximum Effective Output Power	[1-ch driven, 1 kHz, 10% THD] Normal (4 / 8 ohm): 130 / 65 W, Bridge (8 ohm): 260 W
	Total Harmonic Distortion	[SP OUT, 20 Hz-20 kHz, 25 W, 8 ohm] 0.04%,
	Frequency Response	[1 kHz + 0 / -3 dB] SP OUT AUX IN: 5 Hz-40 kHz
	Channel Separation	[SP OUT, 1 kHz / 10 kHz] 78 dB / 62 dB
	Signal to Noise Ratio	[SP OUT AUX IN] 108 dB
	Maximum Input Signal	[PRE OUT L / R, 0.9% THD] 1 V
General	Gain	[SP OUT 1 V Input] 25.8 dB
	Input Sensitivity	[1 W Power, 8 ohm] 150 mV, [MAX (50W) Power, 8 ohm] 1.0 V
	Power Consumption	130 W, [All Zone On] No Signal Condition: 32 W, [All Zone Off] Audio Sense On: 14.8 W
	Standby Power Consumption	Audio Sense Disable: 0.3 W, Audio Sense Enable / Mode Standby: 0.5W
	Power Management (Auto Power Standby)	Yes (On / Off)
	Dimension (W x H x D) mm	[Table Top Mount with Adhesive Feet] 17-1/4" x 1-3/4" x 17-3/8" [Table Top Mount with Adhesive Feet and Faceplate] 17-1/4" x 1-3/4" x 17-7/8" [Rack Mount] 18-7/8" x 1-3/4" x 17-3/8" [Rack Mount with Faceplate] 18-7/8" x 1-3/4" x 17-7/8"
	Weight	13.2 lbs