

Amp Multi

Specification sheet

SONOS



Sonos Amp Multi Key Features

- Up to 4 zones
- 8 x 125W per output at 8Ω
- GaN-powered with PFFB technology
- Convection cooled
- ProTune manual EQ, delay, and gain
- 2U Rack Mount (sold separately)
- Ethernet and WiFi 6 connectivity
- Supports Apple AirPlay 2 and Spotify Connect

Product Overview

Sonos Amp Multi is a four-zone, eight-output amplifier designed to streamline installations and deliver high-quality audio. Assign each of the eight 125W channels to any zone.

It uses GaN technology for significantly greater power efficiency, consumes 5.4W at idle (with WiFi disabled) which minimizes heat generation, improves reliability, and eliminates the need for fans. Post-filter feedback (PFFB) enables real-time signal correction, ensuring exceptional audio clarity, precision, and control across different speaker loads.

The Rack Mount (sold separately) has been designed specifically for Amp Multi, creating space above and below each unit to support airflow in a 2U configuration. Amp Multi's flat back makes it easy to stand upright so the Rack Mount slides on easily. Secure with just four screws for a satisfactorily simple installation. Clear status LEDs provide immediate feedback, automatically adjusting to the room's lighting for optimal visibility.

The Sonos app gives you complete control over everything: zones, sources, output assignments, light indicators, and status monitoring. Setup is easier than ever thanks to an audible chirp that identifies each unit — no PIN required. Stream up to four audio sources simultaneously from the Sonos app, Apple Airplay 2, or Spotify Connect, with connection from wired Ethernet or WiFi 6. Amp Multi provides optimization profiles for Sonos Architectural speakers as well as ProTune, which includes a full suite of manual controls to optimize each output for each space.

Amp Multi offers true multi-zone flexibility, empowering integrators to deliver bespoke audio experiences.

Specifications

Sonos Amp Multi	
Speaker Outputs	8 amplified outputs each independently configurable for stereo or mono
FTC Power Output Rating	125 W per channel @ 8Ω (all channels driven)
Minimum Impedance	2.67Ω with Sonos Architectural speakers
Analog Audio Input	2 x RCA inputs -10dB (into any zone)
USB-C Analog Audio Input	44.1 kHz / 16 bit (stereo into any zone) Requires Sonos Line-In Adapter
Subwoofer Connections	1 x RCA output -10dB (configurable to output from one zone), and 1x Sonos Sub per zone
Damping Factor	>400 (ref. 8 ohms, 20 Hz to 1 kHz)
Amplifier Technology	Class D with GaN and PFFB
Total Harmonic Distortion	0.005% at 2.83Vrms-15Vrms
Frequency Response	15 Hz - 20 kHz, ±0.5 dB
Channel Separation (Crosstalk)	-100dB at 1 kHz 2.83Vrms -80dB at 10 kHz 2.83Vrms
Signal-to-Noise Ratio	114dB ref 125W into 8-Ohm
CPU	Quad Core 4xA55 1.9GHz
ProTune Signal Processing	10-band parametric EQ with ±15dB gain, Q, and frequency control. Option for high-shelf, low-shelf, and bell filter types. Gain trim: -15 to +5 dB Delay: 0 - 50ms Highpass: 15-100Hz All available on per channel basis
Optimize Sonos Speakers	When selected in the Sonos app, Optimize Sonos Speakers allows Amp Multi to recognize Sonos Architectural speakers, then applies custom tuning and DSP to provide more robust sound with a more even frequency response, optimizing system performance and ensuring stable operation.
Power	Auto-switching 100-240V 50/60 Hz 10A AC universal input
Power Consumption	5.4 W (idle, with WiFi disabled) 180 W (all channels driven at 1/8 output power, 8 Ohms)
Operating Temperature	32° to 95° F (0 to 35° C)
Humidity Range	Non condensing 10%-85%
LEDs	Front: Device status Rear: Device status, output status (x8), RJ45 status light
Box Contents	Amp Multi Set of 8 banana plugs Power cord Legal/warranty documentation
Product Dimensions (W x H X D)	17.2 x 2.52 x 10.44 in / 436.8 x 64.5 x 265.2 mm
Net Weight	11.17 lb / 5.06 kg
Shipping Weight	16.56 lb / 7.51 kg
Wired Networking Interface	100BaseTX, Ethernet RJ45

Wireless Networking Interface	Compatible with WiFi 6. Connect to Wi-Fi with any 802.11a/b/g/n/ac/ax 2.4 GHz/5 GHz broadcast-capable router
Direct Streaming Formats	Apple AirPlay 2, Spotify Direct Control, and more. For a complete list, please visit: support.sonos.com/en-us/article/stream-audio-to-sonos-from-another-app
Integrated Content Streaming	Amazon Music, Apple Music, Cloud Cover Music, Mood Media, Sonos Radio, Soundtrack Your Brand, Spotify, and many more. For a complete list, please visit: support.sonos.com/services
Accessories	2U Rack Mount (sold separately)

Power dissipated as waste heat									
		115 VAC				240 VAC			
Condition	Load	Line Current (Amp)	W	BTU	kcal/hr	Line Current (Amp)	W	BTU	kcal/hr
Idle	n/a	0.12	4.3	14.66	3.7	0.15	5.28	18	4.54
1/8 Power pink noise	16 Ohms	0.39	40.75	138.95	35.04	0.32	39.01	133.02	33.54
	8 Ohms	0.42	38.56	131.48	33.15	0.29	31.49	107.37	27.07
	4 Ohms	0.52	44.82	152.83	38.54	0.38	46.11	157.23	39.65
	2.67 Ohms	0.61	49.46	168.67	42.53	0.41	50.11	170.87	43.08
1/3 Power pink noise	16 Ohms	0.48	50.29	171.49	43.24	0.36	49.64	169.26	42.68
	8 Ohms	0.53	42.15	143.72	36.24	0.34	42.55	145.11	36.59
	4 Ohms	0.80	58.57	199.72	50.36	0.44	57.6	196.41	49.52
	2.67 Ohms	1.04	72.62	247.64	62.44	0.54	69.51	273.03	59.77
Full Power pink noise	16 Ohms	0.73	75.04	255.89	64.52	0.41	74.8	255.08	64.32
	8 Ohms	0.92	36.66	125	31.52	0.52	35.18	199.97	30.25
	4 Ohms	1.80	77.38	263.87	66.54	0.87	70.96	241.98	61.02
	2.67 Ohms	2.51	101.15	344.93	86.98	1.21	96.15	327.88	82.68

No USB load

WiFi on (no traffic)

100BaseT Ethernet connected

All eight channels driven with fullscale, digital source, Pink noise with 12 dB crest factor

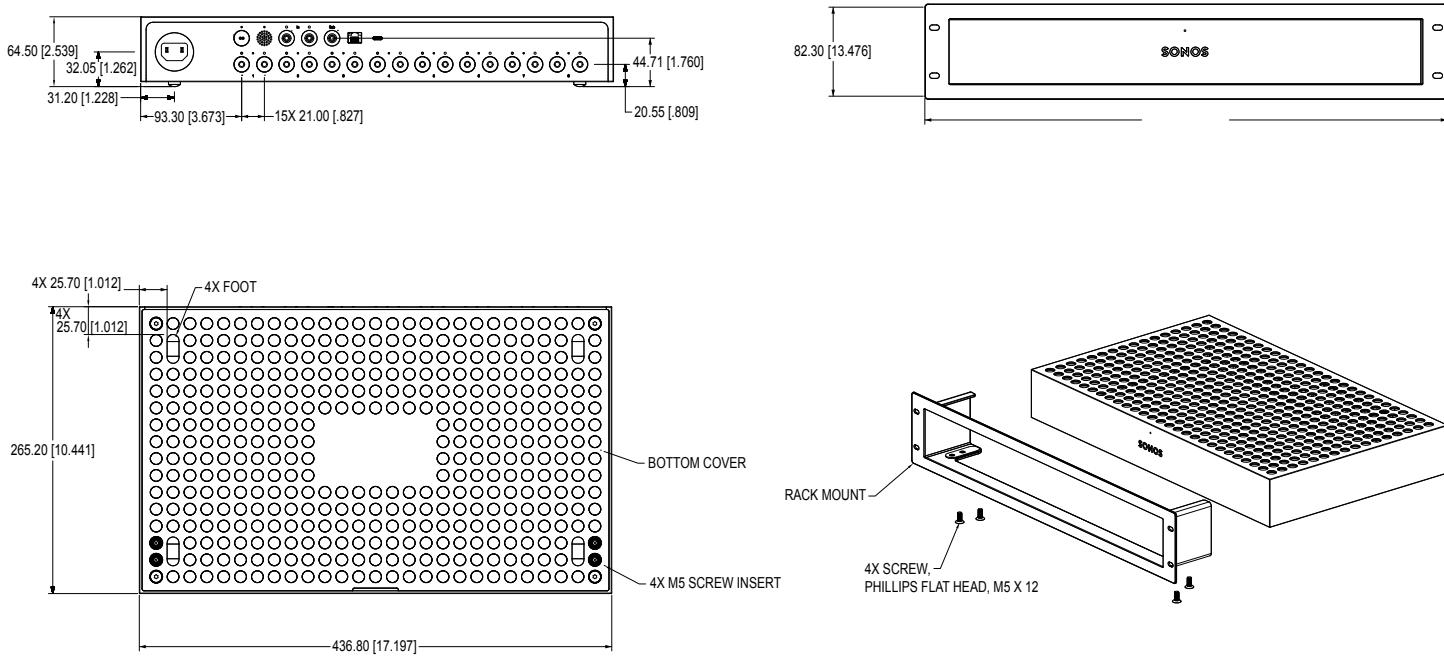
Architect and Engineer Specifications

The unit shall be a multi-channel, network-connected power amplifier providing eight (8) channels, each capable of delivering 125 watts RMS into 8 ohms. The amplifier stage shall utilize Class D digital topology employing GaN transistors with post filter feedback (PFFB) for enhanced linearity, reduced distortion, and improved load tolerance. THD shall not exceed 0.005%, with a frequency response of 15 Hz to 20 kHz ± 0.5 dB. Channel separation (crosstalk) shall be -100 dB at 1 kHz 2.83Vrms, and the signal-to-noise ratio shall be 114dB ref 125W into 8-ohm.

The amplifier shall feature a Quad Core 1.3 GHz A7 CPU to support advanced DSP functions, including an 10-band parametric equalizer per output with adjustable gain (± 15 dB) and bandwidth control. An Optimize Speakers mode, selectable in the Sonos app, shall enable automatic recognition of Sonos Architectural speakers and apply custom DSP to improve frequency response, optimize performance, and maintain operational stability.

Network connectivity shall be via a 100Base-TX Ethernet port or integrated Wi-Fi 6 supporting 802.11a/b/g/n/ac/ax on both 2.4 GHz and 5 GHz bands. Analog audio input shall be provided via two (2) RCA connectors at -10 dB (stereo into one zone). USB-C digital audio input shall support 44.1 kHz sampling rate at 16-bit resolution (stereo into one zone). Amplifier outputs shall employ custom-designed banana plug connectors, replaceable with standard-diameter banana plugs. A dedicated sub-bass output shall be provided via one (1) RCA connector at -10 dB, configurable to operate from a single zone. The unit shall incorporate an internal universal power supply operating from 100-240 VAC, 50/60 Hz, with typical idle power consumption of 5.4 W at 120 V (with WiFi disabled). The amplifier shall be compatible with control and configuration via the Sonos app on a supported device and shall meet applicable certifications and compliance standards.

The product shall be the Sonos Amp Multi or approved equivalent.



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