

# ASA 204

Quad Active ASA - Audio Summing Amplifier with RCA Inputs

**UNIQUE FEATURES**

- Inputs: Female RCA connectors



# ASA 304

Quad Active ASA - Audio Summing Amplifier with Captive Screw Inputs

**UNIQUE FEATURES**

- Inputs: Captive screw connectors



## COMMON FEATURES

- Four, independent active audio summing amplifiers in a single enclosure
- Converts stereo audio to balanced or unbalanced mono audio
- Mono outputs on captive screw connectors
- ± 6 dB output gain switch
- Rack-mountable 1U, quarter rack width metal enclosure
- External universal power supply included, part # 70-055-01 — Provides worldwide power compatibility.

## DESCRIPTION

The Extron **ASA 204** and **ASA 304** are high performance Audio Summing Amplifiers that convert two-channel stereo audio signals to balanced/unbalanced mono audio signals. They are ideal for summing stereo signals for use in mono multi-speaker PA systems in churches, halls, arenas, stadiums, and other environments where stereo signals would result in cancellation.

The ASA 204 and ASA 304 offer four independent, active audio summing amplifiers in a single enclosure. They convert stereo audio signals from four different sources into mono audio signals and include switch-selectable gain to achieve different output gain levels. While the ASA 204 and ASA 304 offer different input connector configurations to meet specific integration needs, both provide balanced/unbalanced outputs on captive screw connectors. These high performance summing amplifiers enable long cable runs and immunity from interference and noise normally associated with the use of unbalanced audio equipment in professional integration projects.

Part of the VersaTools® line of products, the ASA 204 and ASA 304 are housed in 1U, quarter rack width metal enclosures, are easy to install in small spaces, and are rack and under-desk mountable. They can also be mounted at the projector using Extron's series of PMK - Projector Mounting Kit products.

MODEL	VERSION DESCRIPTION	PAGE	PART #
ASA 204	RCA Input .....		60-552-30
ASA 304	Captive Screw Input .....		60-552-20
OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RSU 129	1U 9.5" Deep Universal Rack Shelf Kit .....	page 819	60-190-01
RSF 123	1U 3.5" Deep VersaTools® Rack Shelf Kit .....	page 818	60-190-20
RSB 129	1U 9.5" Deep Basic Rack Shelf .....	page 820	60-604-01
RSB 123	1U 3.5" Deep Basic Rack Shelf .....	page 818	60-604-20
MBU 123	VersaTools® Mini Under-Desk Mount Kit .....	page 815	70-212-01
PMK 100	One VersaTools®, 1/4 Rack Width Mini Projector Mounting Kit .....	page 813	70-217-01
PMK 300	Multi-Product Projector Mount Kit .....	page 813	70-374-01

Continued →

## ASA 204, ASA 304

## SPECIFICATIONS

## AUDIO

**Gain** ..... Generally unity. Actual gain depends on whether or not both inputs have signals and also on the output wiring and DIP switch settings. See the table below.

Input Channel		Output Wiring	Output DIP Switch Settings	
Left	Right		Unbalanced	Balanced
signal	signal	balanced	+9 dB	+3 dB
signal	—	balanced	+3 dB	-3 dB
—	signal	balanced	+3 dB	-3 dB
signal	signal	unbalanced	+3 dB	-3 dB
signal	—	unbalanced	-3 dB	-9 dB
—	signal	unbalanced	-3 dB	-9 dB

**Frequency response** ..... 20 Hz to 20 kHz,  $\pm 0.05$  dB

**THD + Noise** ..... 0.03% @ 1 kHz at nominal level

**S/N** ..... >90 dB (balanced) at rated maximum output

**CMRR** ..... >75 dB @ 20 Hz to 20 kHz

## AUDIO INPUT

## Number / Signal type

ASA 204 ..... 4 stereo, unbalanced

ASA 304 ..... 4 stereo, balanced/unbalanced

## Connectors

ASA 204 ..... 4 pairs of female RCA (tip-ring)

ASA 304 ..... (4) 3.5 mm captive screw connectors, 5 pole

## Impedance

ASA 204 ..... >10k ohms unbalanced, DC coupled

ASA 304 ..... >17k ohms unbalanced, 23k ohms balanced, DC coupled

## Nominal level

ASA 204 ..... -10 dBV (316 mV)

ASA 304 ..... +4 dBu (1.23 V)

**Maximum level** ..... +20 dBu (7.75 V), (balanced or unbalanced) at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV = 2 dBu

## AUDIO OUTPUT

**Number / Signal type** ..... 4 mono, balanced/unbalanced

**Connectors** ..... (2) 3.5 mm captive screw connectors, 5 pole (double stacked)

**Impedance** ..... <50 ohms unbalanced, 100 ohms balanced

## Nominal level

ASA 204 ..... -10 dBV (316 mV)

ASA 304 ..... +4 dBu (1.23 V)

**Maximum level (Hi-Z)** ..... >+23 dBu, balanced; or >+17 dBu, unbalanced at 1% THD+N

**Maximum level (600 ohm)** ..... >+21 dBm, balanced; or >+15 dBu, unbalanced at 1% THD+N

## GENERAL

**External power supply** ..... 100 VAC to 240 VAC, 50/60 Hz, external, universal; to 12 VDC, 1 A (max.), regulated

**Power input requirements** ..... 12 VDC, 0.2 A

**Temperature / Humidity** ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing

Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

**Rack mount** ..... Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or VersaTools® rack shelf, part #60-190-20 or 60-604-20.

Also furniture mountable with optional under desk mounting brackets, #70-212-01, or projector mountable with bracket kit #70-217-01.

**Enclosure type** ..... Metal

**Enclosure dimensions** ..... 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide)

4.3 cm H x 10.9 cm W x 7.6 cm D

(Depth excludes connectors.)

**Product weight** ..... 0.5 lbs (0.3 kg)

**Shipping weight** ..... 3 lbs (2 kg)

**Vibration** ..... ISTA 1A in carton (International Safe Transit Association)

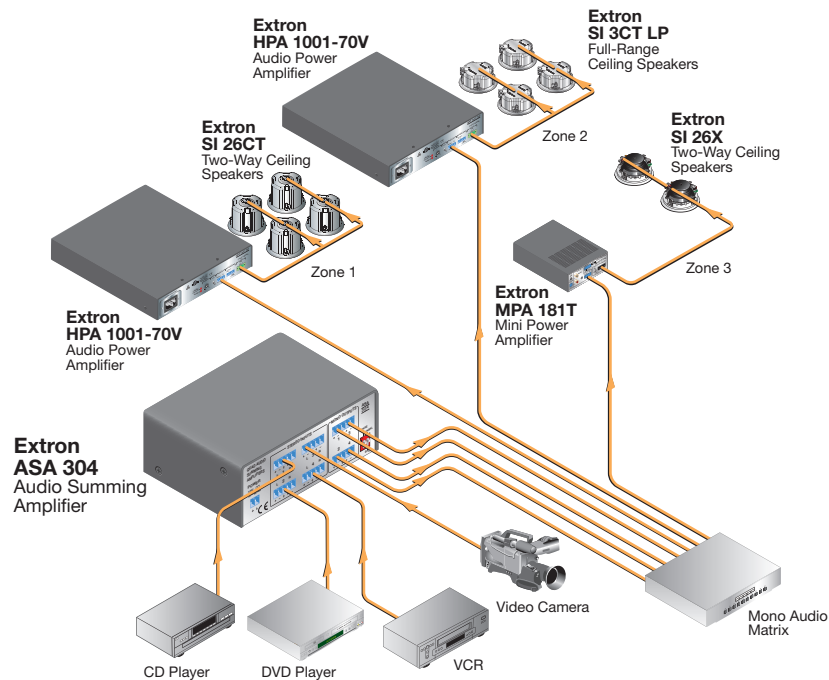
**Listings** ..... UL, CUL

**Compliances** ..... CE, FCC Class A, VCCI, AS/NZS, ICES

**MTBF** ..... 30,000 hours

**Warranty** ..... 3 years parts and labor

NOTE: All nominal levels are at  $\pm 10\%$ . Specifications are subject to change without notice.



## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>