

# ASA 100 Series

Passive ASA - Audio Summing Adapters



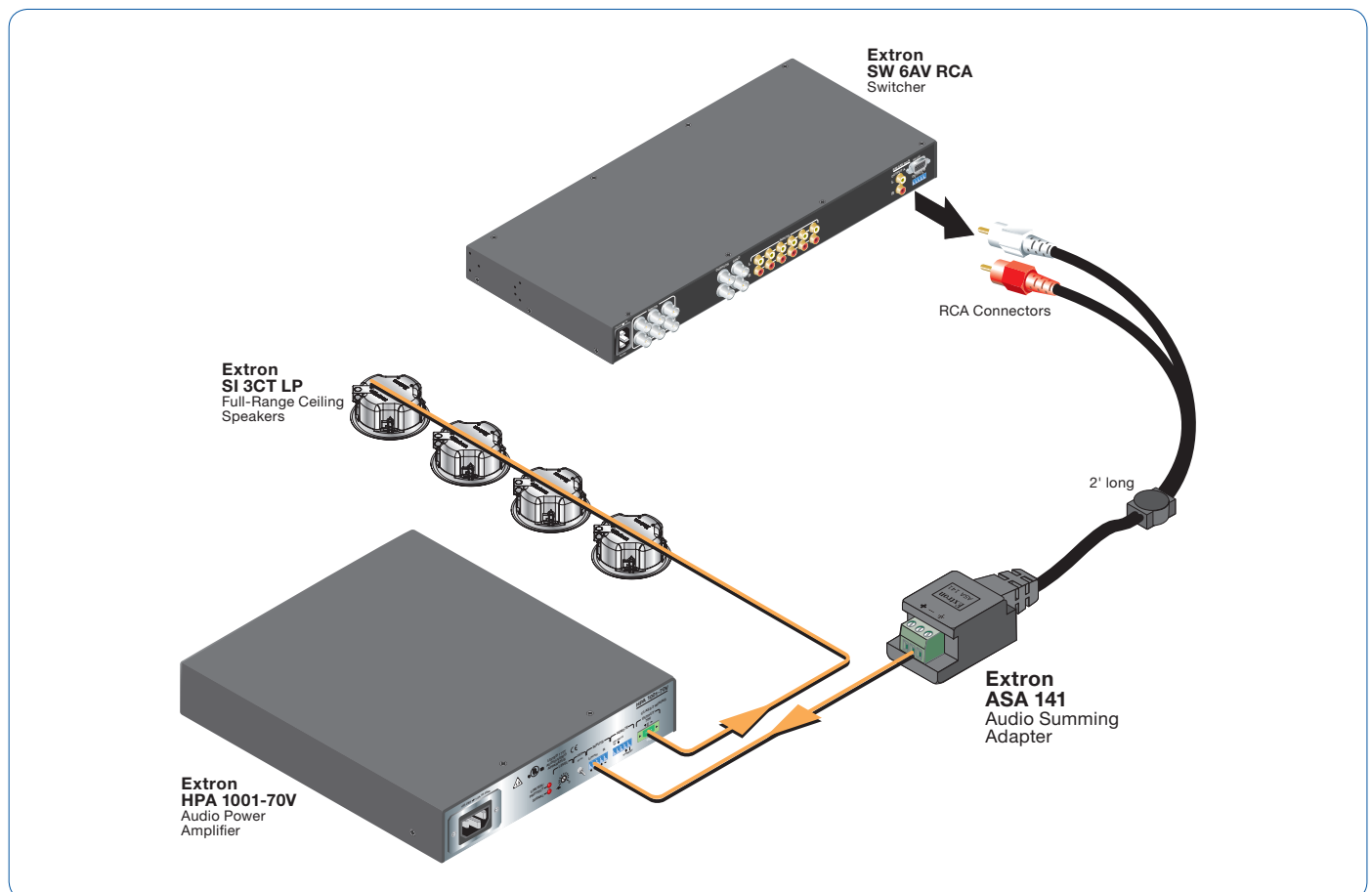
## COMMON FEATURES

- Output: Captive screw terminal
- Resistor network provides passive audio summing
- Compact design for easy installation into small spaces or behind equipment in a rack
- 2 foot (60 cm) length

## DESCRIPTION

The Extron **ASA 100 Series** of Audio Summing Adapters are convenient, single-cable solutions for combining two-channel stereo audio into a mono audio signal. They are ideal for summing stereo signals for use in mono PA systems in churches, halls, arenas, stadiums, and other environments where stereo signals would result in cancellation. Because they are small and passive devices, these Audio Summing Adapters are especially useful in systems where power and space are limited.

The ASA 111, ASA 121, and ASA 131 feature connectivity options for popular stereo sources such as RCA, stereo mini plug, or captive screw connectors. The ASA 141 features RCA input connectors while an internal transformer provides a balanced output isolating the signal from load and preventing ground loops. All ASA 100 series products are designed as 2 foot long adapters with a resistor network to properly sum stereo signals without signal loss or damage to source equipment.



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## ASA 100 Series

## ASA 111

Passive ASA - Audio Summing Adapter with Stereo Mini Plug Input and Unbalanced Output

**UNIQUE FEATURES**

- Converts unbalanced stereo audio to unbalanced mono audio
- Input: 3.5 mm stereo mini plug



MODEL	VERSION DESCRIPTION	PART #
ASA 111	Stereo Mini Plug Input .....	60-738-01

## ASA 121

Passive ASA - Audio Summing Adapter with RCA Inputs and Unbalanced Output

**UNIQUE FEATURES**

- Converts unbalanced stereo audio to unbalanced mono audio
- Input: Male RCA connectors



MODEL	VERSION DESCRIPTION	PART #
ASA 121	RCA Input .....	60-739-01

## ASA 131

Passive ASA - Audio Summing Adapter with Captive Screw Plug Input and Balanced Output

**UNIQUE FEATURES**

- Converts balanced stereo audio to balanced mono audio
- Input: Captive screw plug
- Designed for use with Extron products featuring balanced audio outputs on captive screw connectors



MODEL	VERSION DESCRIPTION	PART #
ASA 131	Captive Screw Plug Input .....	60-740-01

## ASA 141

Passive ASA - Audio Summing Adapter with RCA Inputs and Balanced/Unbalanced Output

**UNIQUE FEATURES**

- Converts unbalanced stereo audio to balanced or unbalanced mono audio
- Input: Male RCA connectors
- Internal transformer provides balanced output and isolates signal from load to prevent ground loops
- Wide frequency response from 20 Hz to 20 kHz



MODEL	VERSION DESCRIPTION	PART #
ASA 141	RCA Input; Transformer Balanced .....	60-804-01

Continued →

## ASA 100 Series

## SPECIFICATIONS

## AUDIO

## Gain

ASA 111, ASA 121 ..... See the table below. Tested with an unbalanced output and a 20k ohm load.  
 ASA 131 ..... See the table below. Tested with a balanced output and a 20k ohm load.

Input Channel		Output
Left	Right	
signal	signal	-1 dB
signal	—*	-7 dB
—*	signal	-7 dB

\* Tested with this input remaining connected.

ASA 141 ..... See the table below. Tested with a 20k ohm output load. Gain numbers are  $\pm 2$  dB.

Input Channel		Output Wiring	
Left	Right	Unbalanced	Balanced
0 dB	0 dB	+3 dB	-3 dB
0 dB	open	+3 dB	-3 dB
0 dB	50 ohms	-3 dB	-9 dB

\* Tested with this input remaining connected.

## Frequency response

ASA 111, ASA 121, ASA 131 .. 20 Hz to 20 kHz,  $\pm 0.05$  dB

ASA 141 with -10 dBV, +4 dBu, or +15 dBV input ..... 20 Hz to 20 kHz, -3 dB to +1 dB

## THD + Noise

ASA 111, ASA 121, ASA 131.... 0.03% @ 20 Hz to 20 kHz at nominal level  
 ASA 141

-10 dBV input ..... 0.05%, 1 kHz, 1% from 40 Hz to 20 kHz

+4 dBu input ..... 0.05%, 1 kHz, 1% from 50 Hz to 20 kHz

+15 dBV input ..... 0.05%, 1 kHz, 1% from 80 Hz to 20 kHz

S/N ..... 130 dB at maximum output

## AUDIO INPUT

## Number/signal type

ASA 111, ASA 121, ASA 141.... 1 stereo, unbalanced

ASA 131 ..... 1 stereo, balanced

## Connectors

ASA 111 ..... (1) 3.5 mm male stereo mini plug (tip-ring-sleeve)

ASA 121, ASA 141 ..... 1 pair of male RCA (tip-ring)

ASA 131 ..... (1) 3.5 mm captive screw connector, 5-pole

## Impedance

ASA 111, ASA 121 ..... 22k ohms (with a 20k ohm unbalanced load, one input terminated);  
 4k ohms (with a 20k ohm unbalanced load, both inputs terminated)

ASA 131 ..... 24k ohms (with a 20k ohm balanced load, one input terminated);  
 7k ohms (with a 20k ohm balanced load, both inputs terminated)

ASA 141 ..... 5.4k ohms (with a 20k ohm balanced load, both inputs terminated)

## Nominal level

ASA 111, ASA 121 ..... -10 dBV (316 mVrms)

ASA 131 ..... +4 dBu (1.23 Vrms)

ASA 141 ..... -10 dBV (316 mVrms) or +4 dBu (1.23 Vrms)

## Maximum level

ASA 111, ASA 121, ASA 131 .. +24 dBu (12.3 V)

ASA 141 ..... +15 dBV (5.6 V)

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

## AUDIO OUTPUT

## Number/signal type

ASA 111, ASA 121 ..... 1 mono, unbalanced

ASA 131 ..... 1 mono, balanced

ASA 141 ..... 1 transformer, mono, balanced/unbalanced

Connectors ..... (1) 3.5 mm direct insertion captive screw connector, 3 pole

## Impedance (with 50 ohm input impedance)

ASA 111, ASA 121 ..... 1k ohms unbalanced

ASA 131 ..... 2k ohms balanced

ASA 141 ..... 3.3k ohms balanced (typical)

## Nominal level

ASA 111, ASA 121 ..... -10 dBV (316 mV)

ASA 131 ..... +4 dBu (1.23 V)

ASA 141 ..... -10 dBV (316 mV) or +4 dBu (1.23 V)

## Maximum level

ASA 111, ASA 121, ASA 131.... +24 dBu (12.3 V)

ASA 141 ..... +15 dBV (5.6 V)

## GENERAL

Power ..... Not powered

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

Can be attached to any flat surface with supplied Velcro®

Rack mount ..... Molded plastic

Enclosure type ..... Molded plastic

## Enclosure dimensions

ASA 111, ASA 121, ASA 131 .. 0.7" H x 0.7" W x 1.3" D

1.8 cm H x 1.7 cm W x 3.4 cm D

(Depth excludes the 24 inch long pigtail for ASA 121 and the 24 inch long single cable for the ASA 111 and ASA 131.)

ASA 141 ..... 1.1" H x 1.1" W x 1.6" D

2.8 cm H x 2.8 cm W x 4.0 cm D

(Depth excludes the 24 inch long pigtail.)

Product weight ..... 0.2 lbs (0.1 kg)

Shipping weight ..... 1 lb (1 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.

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