

FEATURES

- Four (4) independent balanced stereo audio switches – R197A
- Four (4) independent balanced stereo audio and Video/RF switches – R197AV Only
- Separate dry contact form “C” relay for each channel
- Independent Relay channel activation by contact closure or network
- Front panel status indicators when relay(s) are “active”
- Detachable Screw Terminals for all audio, relay and power connections
- Low power/ ground control inputs
- Optional redundant power supplies (part number 427)
- Direct network control by One-Net / One-Net^{SE} / DASDEC™
- Single rack-mounted chassis with all connections on rear panel

APPLICATIONS

- Non-Duplication Switching
- Blackout Switching
- Routing Switching
- Multichannel EAS switching
- Can be configured for several matrix configurations
- One-Net^{SE} / DASDEC™ remote control in EAS usage switching
- MultiStation™ switching and control by DASDEC



Local/Network Controlled Independent 4-channel Stereo Audio or Stereo-Audio-Follow-Video/RF Switching System.

DESCRIPTION

Digital Alert Systems' Model R197A and Model R197AV products provide four (4) independent balanced stereo audio (197A) or balanced stereo audio and video/RF (R197AV) switches in a single 1 RU frame.

Each of the four independent relay channels contains a 2 x 1 (A/B) balanced stereo audio relay switch and a single-pole double-throw dry contact relay. The Model 197AV also includes a 2 x 1 (A/B) video/RF switch with flat frequency response from DC to 1GHz.

Each independent relay channel is controllable by individual contact closures pulled to ground or a TCP/IP (Ethernet) LAN interface enabling each channel to be controlled locally or remotely over any TCP/IP network.

Using local General Purpose Input devices such as a Monroe Electronics Timer or host of other similar DEVICES the R197A/ R197AV can switch program audio/video to alternate channels for blackout switching, program isolation, or multichannel EAS program switching¹.

Over a network connection a Digital Alert Systems One-Net™ or DASDEC™ can directly control EAS audio and other switching devices by each relay channel. Network settings are easy using any standard web browser and the built-in web server configuration page. No special software or cables are necessary.

The R197A/R197AV is conveniently powered by a single wall-mounted power supply (included). A secondary (diode-isolated) power input is provided to accommodate an optional redundant wall-mounted power supply.



¹Some applications may require separate distribution amplifier(s) – not included.

PANELS



R197A & R197AV Front

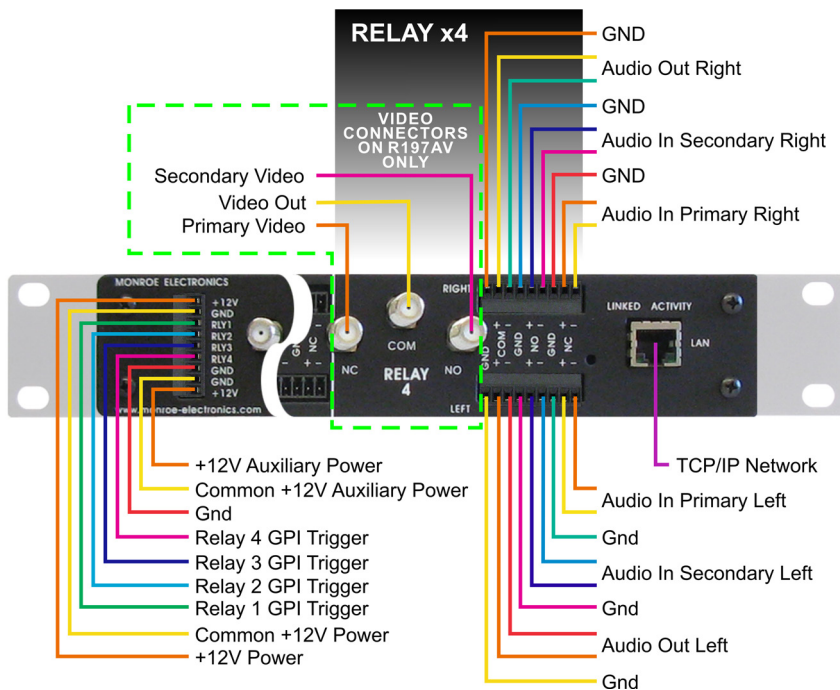


R197A Back



R197AV Back

CONNECTION DIAGRAM



Emergency Messaging Platforms CATV Switching and Control

100 Housel Ave., P.O. Box 535
Lyndonville, NY 14098
(585)765-2254 (585)765-1155 fax (585)765-9330

www.digitalalertsystems.com

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SPECIFICATIONS

Analog Audio Inputs (per Relay channel)

- Separate right and left balanced stereo audio Normally Closed (NC) Normally Open (NO) and Common (COM)

Outputs (varies by configuration settings)

- One-pair (1) L & R balanced 600 ohm stereo audio (Master Input) female XLR

Connections by detachable screw terminal strip 9-pin detachable terminal strip per channel

Audio Isolation

- >90 dB

Attenuation

- < 0.01 dB

Audio Relays Contact Rating

- 30 VDC max.; 1A max.

GPO (General Purpose Outputs)

(per Relay channel)

- Normally Closed (NC) Normally Open (NO) and Common (COM)

Video R197AV Only

- Two Video/RF inputs per relay channel switch - Normally Closed (NC) Normally Open (NO)
- One Video/RF output Common (COM) per relay channel
- All Video/RF connections via high-quality "F" style connectors

Return-loss

- > 22 dbmv

Frequency Response

- 0 to 1GHz

CONTROLS

LAN Interface TCP/IP Ethernet

- One (1) 10/100/1000BASE-T Ethernet IEEE 802.3
- RJ-45 connectors suited for wiring CAT-5 or above
- Port features green link & amber data indicators
- Assignable IP addressing either fixed or DHCP (unit ships fixed at 192.168.0.2)

GPI (General Purpose Inputs)

- One (1) contact closure input per channel Contact Closure input voltage (high): + 7 to +12 VDC
- Contact Closure input voltage (low): < +2VDC
- Max Sink Capability: < 2.4 mA
- 9-pin detachable terminal strip (shared with power inputs)

Front Panel Indicators

- Relay Active one per channel – Red
- Power – Green

Physical Attributes

- 19.0" W x 7.0" D x 1.75" H (1RU EIA rackmount)

Power Requirements

- External wall mounted transformer input 100-240 VAC ±2%, 50-60Hz
- Supplies +12V DC @ <300mA (UL/CSA approved)

Weight

- 5.0 lbs