

FEATURES

- Standard XLR audio connectors
- Dual balanced stereo analog audio input
- Integrated stereo audio distribution amplifier
- Four (4) independent balanced AES stereo audio switches
- Independent channel activation by contact closure or network
- Master contact closure switches all channels simultaneously
- Direct DASDEC™ control over network
- Separate dry contact form “C” relay for each channel
- Single rack-mounted chassis with integrated power supply

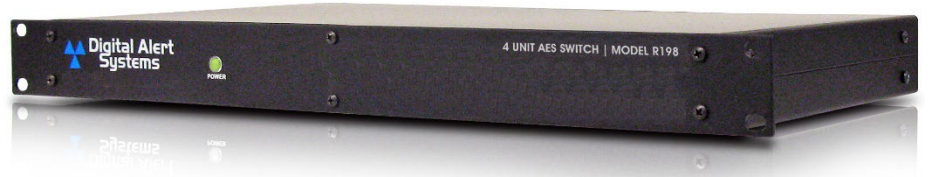
APPLICATIONS

- Upgrade legacy EAS systems to seamless AES audio switching
- Multichannel A to D conversion, distribution & AES switching
- Direct DASDEC MultiStation™ interfacing adds 4 independent channels of AES audio switching



Model R198 | 4 Unit AES Switch

Local/Network Controlled Stereo Analog to Digital Audio Converter/DA and 4-channel AES/EBU Switching System



DESCRIPTION

Digital Alert Systems Model R198 is a unique product for facilities looking to upgrade their existing analog EAS systems to work in a multichannel AES digital audio world.

What used to require an assortment of up to seven separate products; an A to D convertor, a four-channel distribution amp, four high-quality synchronous AES switches, and a network control module, are combined in the small, compact 1RU chassis of the R198 – eliminating the headaches of wiring mazes, rack space problems and multiple power supplies.

Using the R198 facilities can convert a stereo analog signal into AES and seamlessly switch it in and out of 4 other AES program streams. Very helpful for older EAS equipment that may not have native AES support or are expanding with more digital program streams. There may be other products offering one or two functions, but none combine it all in one compact package like the R198.

The R198 provides a simple way to convert any unbalanced stereo audio signal and present it as the common “B-side” of four independent A/B (2 x1) balanced AES audio channels. Each AES channel uses synchronous electronic switching – easily configured to either 32kHz, 44.1kHz or 48kHz incoming sample rates – assuring glitch-free performance with no pops or clicks for seamless program switching of any AES audio stream. In addition, the separate AES channels feature a fail-safe bypass relay maintaining primary program signal integrity in the event of a power failure.

Each independent AES channel switch is controlled by individual contact closures pulled to ground or a TCP/IP (Ethernet) LAN interface. This enables each channel to be controlled locally by contact closures or remotely over any TCP/IP network, making it simple to wire and easy to use over a network or directly interfaced to other broadcast equipment like automation or older, legacy EAS gear. And the Master GPI switches all channels simultaneously for simple bank switching.

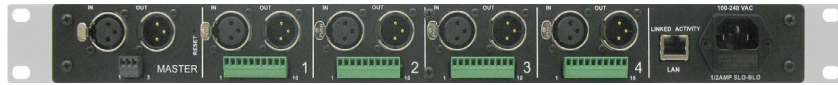
The R198 features a built-in web server and can be configured and operated from any standard web browser on any standard platform. No special software or cables necessary. The network interface follows the standard Digital Alert Systems R190A/R197A/V protocol for 10/100 base T Ethernet interfacing and can be networked to any Digital Alert Systems’ DASDEC™ for direct control over a network connection.

The R198 unit is a fully self-contained 1 RU chassis with an integrated power supply using a standard IEC power cord connection, a two-year warranty and the backing of Digital Alert Systems.

PANELS

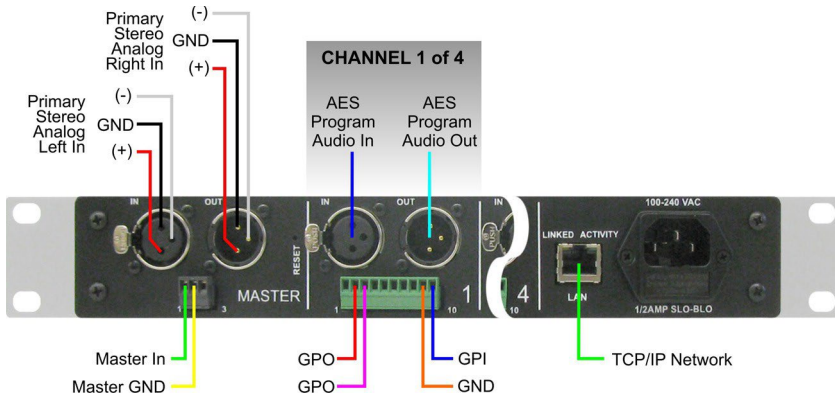


Front View



Back View

CONNECTION DIAGRAM



SPECIFICATIONS

Audio Inputs

- Two balanced stereo audio L & R inputs (master in) (non-looping) 600ohm
 - Left channel female XLR
 - Right channel male XLR

Audio Frequency Response

- 0 to 20KHz, -3dB
- Four (4) separate AES/EBU digital audio (program in) switched 110 ohm
 - Female XLR
- AES/EBU inputs are failsafe bypassed to their respective output in the event of power failure.
- Four (4) separate AES/EBU digital audio (program out) switched 110 ohm
 - Male XLR
- Switch selectable sample rates (44.1KHz or 48KHz) for each channel.

GPO (General Purpose Outputs):

- Four (4) - One (1) per channel Form C relays with Normally Open (NO) and Common (C) outputs rated .5A @200VDC 10-pin detachable terminal strip per channel

CONTROLS

LAN Interface: TCP/IP Ethernet

- One (1) 10/100 Base 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 (unit ships fixed at 192.168.1.2)

GPI (General Purpose Inputs):

- One (1) Master (switches all channels) 3-pin detachable terminal strip
- One (1) contact closure input per channel 10-pin detachable terminal strip (shared with GPO's)
- Contact Closure input voltage (high): + 7 to +12 VDC
- Contact Closure input voltage (low): < +2 VDC
- Max Sink Capability: < 2.4 mA

Front Panel Indicators

- Green Power On indicator

Physical Attributes

- 19.0" W x 12.0" D x 1.75" H (1RU EIA rackmount)

Power Requirements:

- 100-240 VAC 50/60 Hz @ 0.5 amps (25 Watts)

Weight:

- 7.0 lbs (3.175Kg)



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