Stage 48

Customizable remote I/O box for Mix Rack and SC48 systems

Bring I/O versatility to your Mix Rack or SC48 system with Stage 48, a robust AVB-enabled stage box option that provides a reliable, cost-effective way of adding remote I/O to your setup. With Stage 48 (and its companion Ethernet Snake Card installed in your console), you can eliminate the bulky clutter, inherent noise, and expense of analog multicore snakes, and get superior sound quality wherever you need it.

Features

- Gain system flexibility by placing the I/O anywhere in the performance venue
- Move your existing I/O to Stage 48 for a more cost-effective remote I/O solution
- Get the best possible sound quality, with the I/O closer to your sources for maximum fidelity
- Customize the I/O for your needs (features three 16-channel I/O card slots)
- Comes empty as an optional add-on to Mix Rack or SC48 systems, or fully loaded with 32 inputs/16 outputs as part of the SC48 Remote System
- Increase reliability and reduce cable clutter with fully redundant Ethernet AVB connectivity
- Use inexpensive, lightweight Cat5e cables to make the Stage 48 connection
- Connect a second Stage 48 for more distributed I/O versatility

Place the I/O where you need it

Forget about wrestling with bulky analog snakes. The Stage 48 remote box enables you to place the I/O (connected by dual Ethernet cables) anywhere throughout the performance venue—and closer to the stage. This allows the input signals to be amplified and digitally converted as close to the sources as possible, so you gain maximum audio fidelity, eliminating noise and signal degradation.

Customize your ins and outs

Stage 48 comes either fully loaded (32 inputs and 16 outputs) with the SC48 Remote System, or empty when adding it to an existing Mix Rack System or SC48 console (simply move your existing I/O cards to Stage 48). Then expand and customize with other I/O option cards as needed, up to a total I/O of 48 inputs and 32 outputs between Stage 48 and Mix Rack or SC48.

Get maximum reliability with Ethernet AVB connectivity

Stage 48 features fully redundant, auto-switching Ethernet AVB connectivity, delivering a highly reliable, all-digital connection through standard Cat5e cable—at distances up to 328 feet (100 meters) away. And because Cat5e is a fraction of the weight and cost of an analog multicore cable snake, it's easier to purchase and install—especially across long-haul setups.

Connect with the Ethernet Snake Card

To connect Stage 48 to your Mix Rack or SC48 console, the companion AVB-enabled Ethernet Snake Card is required. This option card offers four Ethernet AVB ports for maximum reliability, with fully redundant, auto-switching snake connections that can accommodate up to two Stage 48 remote boxes.

Gain more versatility with two Stage 48 boxes

For applications where two remote boxes would be more ideal—such as keeping one on stage and another at FOH or close to wireless sources—simply connect two Stage 48 boxes to the Ethernet Snake Card to maximize your distributed I/O.

What's included

As a Mix Rack or SC48 add-on:

▪ Stage 48 remote box (empty)

As part of the SC48 Remote System:

▪ Stage 48 remote box loaded with:

  ◦ Two AI16 Analog Input Cards

  ◦ One AO16 Analog Output Card

Stage 48 I/O options

Expand and/or customize the I/O across your system (up to a maximum total of 48 inputs and 32 outputs) with these option cards.

▪ **AI16 Analog Input Card—** Adds 16 mic/line inputs

▪ **AO16 Analog Output Card—** Adds 16 analog outputs

▪ **AT16 A-Net Output Card—** Adds 16 channels of Aviom A-Net connectivity

▪ **XO16 Output Card—**Adds 8 analog line-level and 8 AES digital outputs

Stage 48 Specifications

HARDWARE SPECIFICATIONS

Dimensions (H x W x D)	8.8 x 17.1 x 18 inches (222 x 433 x 455 mm) without ears 8.8 x 19 x 18 inches (222 x 481 x 455 mm) with ears
Rack spaces	5U
I/O card slots	Three—can be customized with any combination of compatible I/O option cards, up to a total of 48 inputs and 32 outputs between your system and Stage 48
Weight	Empty: 30 lbs (13.5 kg) Full: 42.5 lbs (19.3 kg)
Power requirements	100–240 VAC, 50–60 Hz, 140W
Primary and redundant snake connectors	RJ45 Neutrik etherCON (2)
Snake cable type	Shielded 350 MHz Cat5e or better (Neutrik etherCON connectors required)
Maximum snake cable length	328 feet (100 meters) to Ethernet Snake Card

STAGE I/O (INCLUDED WITH VENUE SC48 REMOTE SYSTEM CONFIGURATIONS ONLY)

AI16 Analog Input Cards (2)	
Connector (x16)	XLR3-F, balanced
Phantom power	+48V (individually switchable per channel via software), 10 mA max
Maximum input level	+32 dBu with pad*
Pad	20 dB
Gain	+10 dB to +60 dB
Input impedance	Pad off: 5.5k Ohm, leg to ground Pad on: 3.8k Ohm, leg to ground
EIN	-126 dBu typ (maximum gain,150 Ohm source, 20 Hz – 20 kHz BW, unweighted)*
A/D converter	24-bit, delta sigma
AO16 Analog Output Card (1)	
Connector (x16)	XLR3-M, balanced
Maximum output level	+24 dBu*
Output impedance	50 Ohm, leg to ground
D/A converter	24-bit, delta sigma, 128x oversampling

* 0 dBu = 0.775V rms

Stage 48 front view

Stage 48 back view

Corporate Headquarters 800 949 AVID (2843)	Asian Headquarters + 65 6476 7666	European Headquarters + 44 1753 655999

For more information visit **www.avid.com/stage48**

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