Analog Audio Connections

Aviom analog input and output modules with DB25 multi-pin connectors are wired to the analog pinout that has become standard in the audio industry (which is sometimes referred to as the Tascam® DA-88 or DTRS pinout). This wiring standard allows easy interfacing with a variety of audio equipment using readily-available multi-pin breakout cables or by incorporating Aviom's PB28 Modular Patch Bay products. Each DB25 jack on an Aviom product carries eight balanced audio channels.

Note that digital devices that transmit AES3 digital audio data (sometimes referred to as AES/EBU) use a different wiring pinout (see below); analog and digital multi-pin breakout cables and/or patch bays are not interchangeable.

Wiring an Analog DB25 Cable

To wire a custom cable for use with the analog DB25 jacks on a Aviom product, use the following table:

Cable Number	DB25 Pin Number		
	Hot	**Cold**	**Ground**
1	24	12	25
2	10	23	11
3	21	9	22
4	7	20	8
5	18	6	19
6	4	17	5
7	15	3	16
8	1	14	2
No Connect	13		

DB25 Panel-Mount Connector

The pins on panel-mounted DB25 jacks found on Aviom products are numbered according to the diagram below.
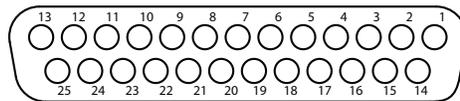
Digital Audio Connections

Aviom AES3 digital audio modules and patch bay products with DB25 multi-pin connectors are wired to accommodate two pinouts that are in use, conforming to either Yamaha® or Tascam/Digidesign® wiring conventions. Each AES3 digital DB25 jack carries eight input and eight output channels. Aviom digital modules are designed to accommodate either wiring format, but remember that cables must connect products that use the same wiring format. You cannot attach a Yamaha format AES3 cable to a Digidesign product's AES3 digital DB25 jack directly, for example. Check the documentation that came with your third-party product before purchasing or wiring breakout cables to ensure compatibility.

Wiring a Digital DB25 Cable

Breakout cables for AES3 digital connections are readily available, and are typically configured as DB25-to-XLR. To create a custom cable for the digital I/O connections on your Aviom product, use the following table. Be sure to use the wiring pinout that matches the pinout for the device to which the Aviom digital device will be connected. Separate pinouts are provided for the Yamaha and Tascam/Digidesign formats.

DB25 Pin	Yamaha Compatible	DB25 Pin	Tascam/Digidesign Compatible
1	Digital In 1/2 +	1	Digital Out 7/8 +
2	Digital In 3/4 +	2	Ground
3	Digital In 5/6 +	3	Digital Out 5/6 -
4	Digital In 7/8 +	4	Digital Out 3/4 +
5	Digital Out 1/2 +	5	Ground
6	Digital Out 3/4 +	6	Digital Out 1/2 -
7	Digital Out 5/6 +	7	Digital In 7/8 +
8	Digital Out 7/8 +	8	Ground
9	No Connect	9	Digital In 5/6 -
10	Ground	10	Digital In 3/4 +
11	No Connect	11	Ground
12	Ground	12	Digital In 1/2 -
13	Ground	13	*No Connect*
14	Digital In 1/2 -	14	Digital Out 7/8 -
15	Digital In 3/4 -	15	Digital Out 5/6 +
16	Digital In 5/6 -	16	Ground
17	Digital In 7/8 -	17	Digital Out 3/4 -
18	Digital Out 1/2 -	18	Digital Out 1/2 +
19	Digital Out 3/4 -	19	Ground
20	Digital Out 5/6 -	20	Digital In 7/8 -
21	Digital Out 7/8 -	21	Digital In 5/6 +
22	Ground	22	Ground
23	Ground	23	Digital In 3/4 -
24	Ground	24	Digital In 1/2 +
25	Ground	25	Ground

Using DB25 Jacks

The DB25 panel-mount connectors on Aviom products have #4-40 UNC threads. Be sure to get DB25 breakout cables with the correct thread type; forcing the connectors by using the wrong thread type will strip one or more of the mating components rendering them unusable.

Strain relief is suggested when using DB25 cable assemblies. DB25 breakout cables should always be supported when connected to an Aviom product to reduce the risk of damaging the product's rear panel.