



1 FEATURES

- 1 RU rackmount
- Eight stereo inputs and Eight Stereo outputs
- Balanced analog or AES/EBU
- Word clock input/output on BNC connectors
- 16 GPIO inputs and 4 GPIO outputs
- 3.81mm locking terminal block connectors
- Compatible with AudioScience ASI5500/6500 series PCI sound cards
- Compatible with AudioScience ASI5600/6600 series PCIe sound cards
- Compatible with AudioScience ASI5700/6700 series PCIe sound cards

2 DESCRIPTION

The BOB1038 is a breakout box for AudioScience sound cards. It can be operated as either an analog breakout or AES/EBU digital breakout.

All I/O is balanced on 3.81mm terminal block connectors. Connections to the audio adapter are via a 68pin VHDCI SCSI type connector for both analog and AES/EBU.

The BOB1038 is 1RU; 19" W x 5.5" D x 1.75" H (482.6mm W x 139.7mm D x 44.5mm H).

AudioScience cards that are supported include the ASI5500/5600, ASI6500/6600, ASI5700/6700 series.

The BOB1038 ships with 2 CBL4001 cables for connecting to the ASI5700/ASI6700 series of cards.

NOTE: The BOB1038 can operate in Analog OR Digital (AES/EBU) mode, but not both at the same time.

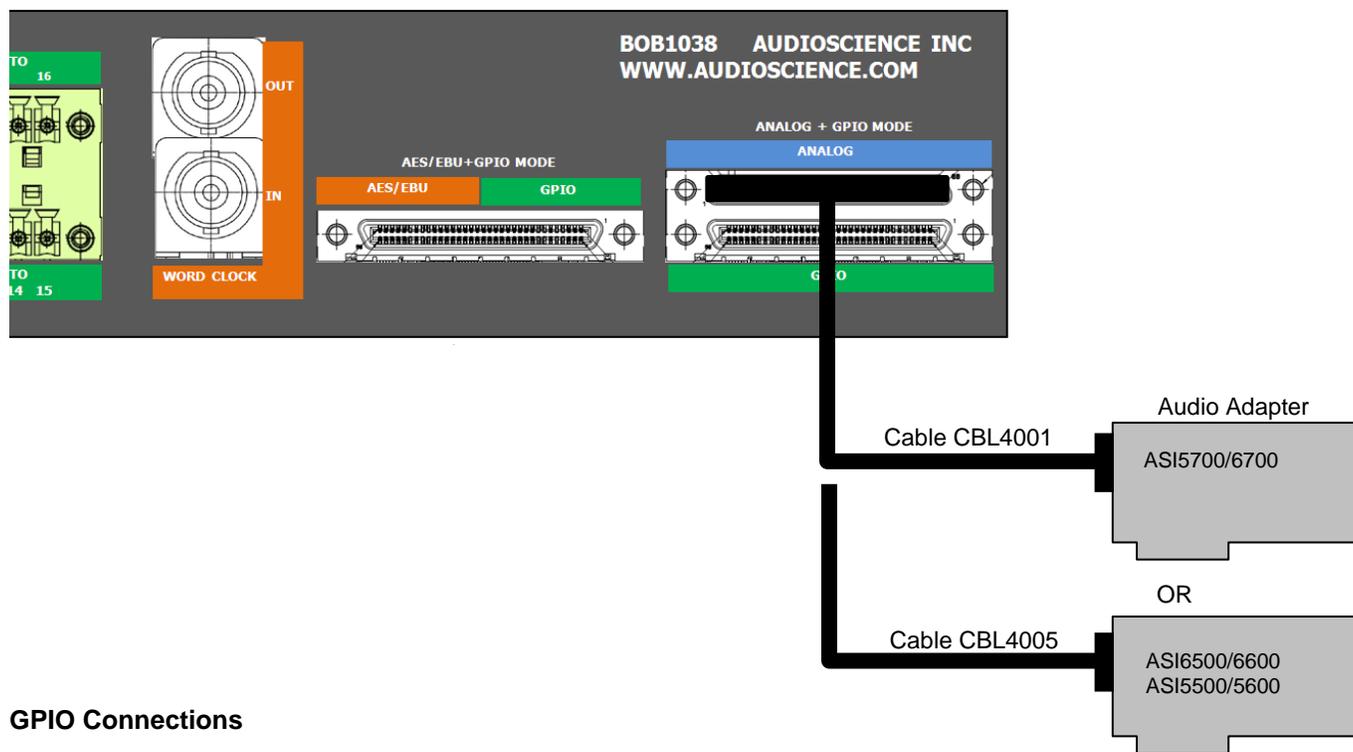
3 CONFIGURATIONS

3.1 Analog + GPIO Mode

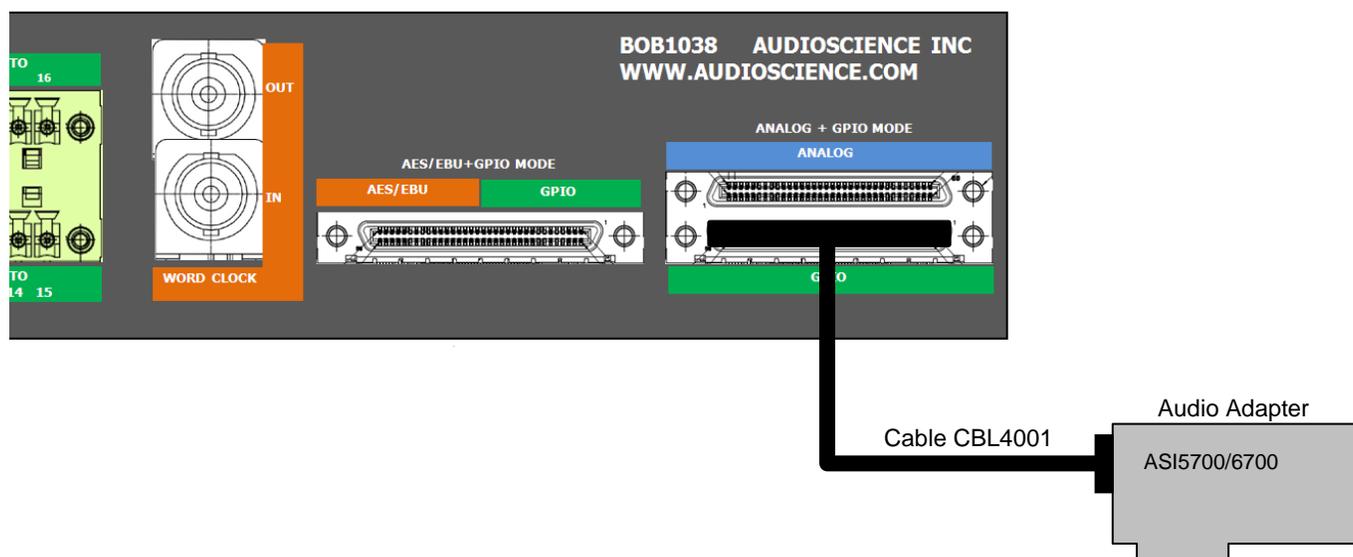
In this mode, one BOB1038 supports 8 stereo inputs, 8 stereo outputs and up to 16 GPIO inputs and 4 GPIO outputs (ASI6700 series only)..

Cable CBL4001 is needed when connecting to an ASI5700/6700 series card and CBL4005 when connecting to an ASI5500/5600/6500/6600 series card.

Analog Connections



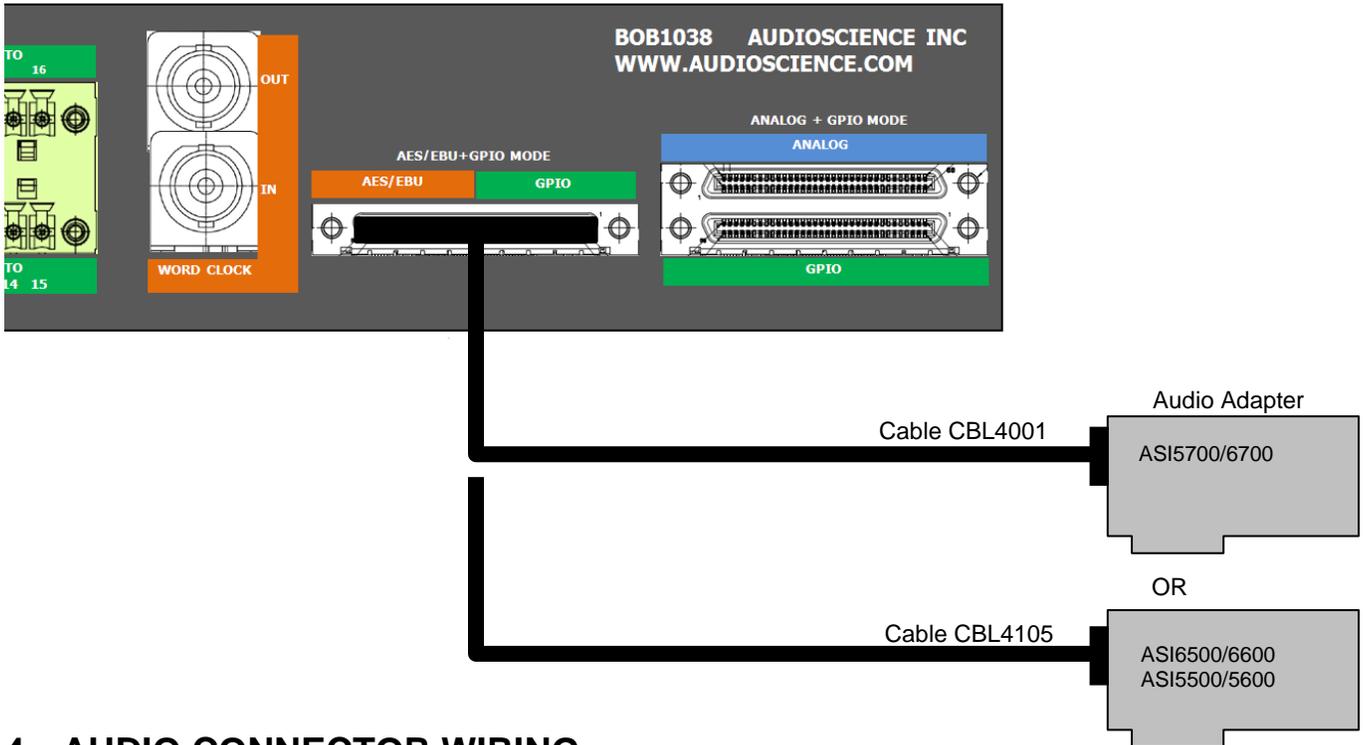
GPIO Connections



3.2 AES/EBU + GPIO Mode

In this mode, one BOB1038 supports 8 AES/EBU inputs, 8 AES/EBU outputs and up to 16 GPIO inputs and 4 GPIO outputs (ASI6700 series only)..

Cable CBL4001 is needed when connecting to an ASI5700/6700 series card and CBL4105 when connecting to an ASI5500/5600/6500/6600 series card.



4 AUDIO CONNECTOR WIRING

The BOB1038 was designed for maximum flexibility to provide wiring options for almost any configuration you may need. The included 3.81mm locking terminal block connectors provide the ability to wire a wide variety of cable ends from XLR to RCA and just about anything else your equipment demands. Below are a few examples of common wiring uses.

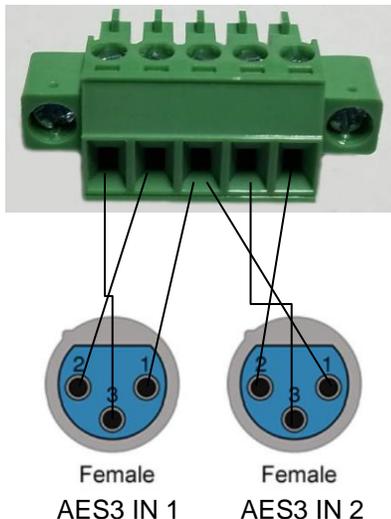
Audio connectors can be used for either analog or AES depending on your needs. Below we see the connector and labels for the first connector on the back of the BOB1038. The orange section shows how to wire the terminal block for AES Out 1 and AES Out 2. The blue section shows how to wire the terminal block for Analog Out 1.



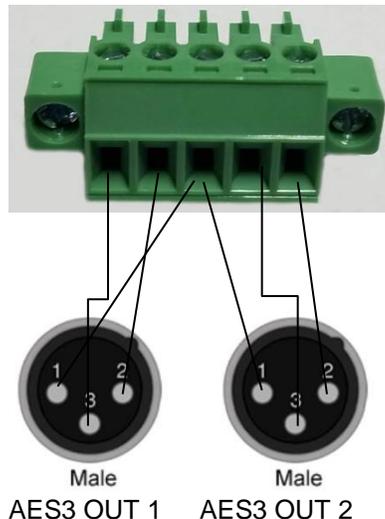
4.1 AES/EBU to XLR connector wiring

AES/EBU wiring uses 1 XLR for each input or output, therefore each terminal block can accommodate 2 inputs or outputs. Standard wiring convention calls for XLR male connectors for outputs and XLR female connectors for inputs. They are wired as shown below.

Input

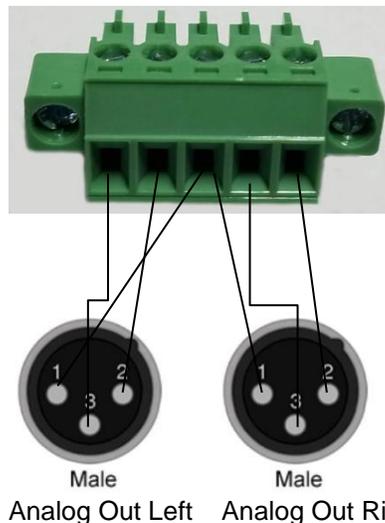
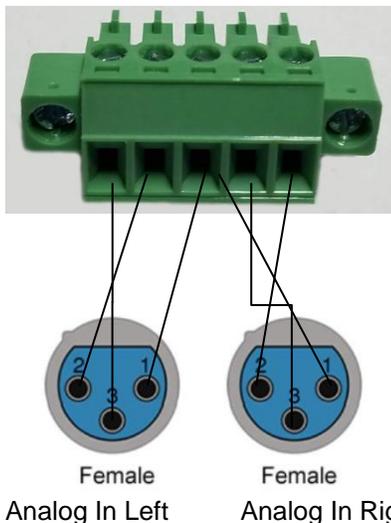


Output



4.2 Analog to XLR connector wiring

Analog wiring requires 2 XLR for stereo operation, therefore 1 terminal block is used for each stereo input or output.



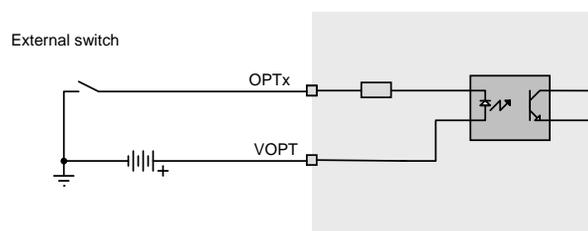
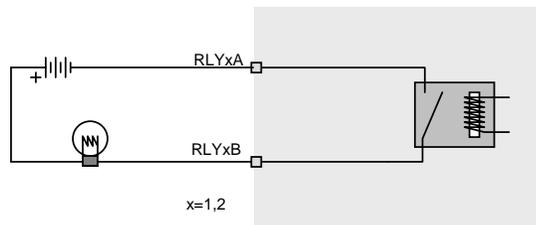
These concepts can be easily applied to other types of connectors as well. All you need to know is what wire is the positive lead, the negative lead and the ground and match those up to the diagram on the back of the unit.

Not all AudioScience cards support GPIO, if you are using the BOB1038 with a product that does, this section will guide you on wiring your connections. See the individual card's datasheet for full details on using GPIO.

4.3 GPIO Connections

The following diagrams show how to connect the GPIO for isolated and non-isolated cases

Isolated



TTL Compatible Non-isolated

