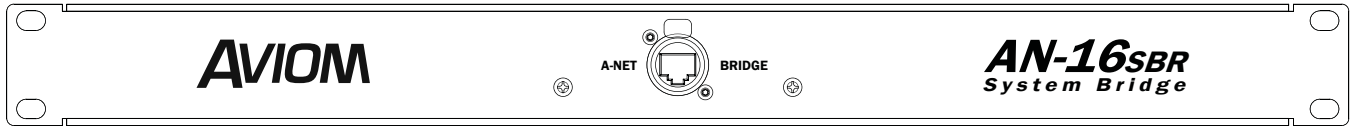




AN-16SBR System Bridge User Guide



The rack-mountable AN-16SBR System Bridge is a two-component product designed to allow up to four pairs of A-Net Pro16 products (such as AN-16/i Input Modules and AN-16/o Output Modules) to be used together to create an audio network using just one cable. When used with the AN-Series products, the AN-16SBR System Bridge allows up to sixty-four channels of audio data to transfer over a single Cat-5e cable to create a digital snake. System Bridges can be mounted in any standard 19" audio gear rack .

The System Bridge is also compatible with Aviom's Pro16 Monitor Mixing System products, which include the A-16II and A-16R Personal Mixers. Up to four separate monitor systems can be transmitted over a single Cat-5e cable by using a System Bridge.

A-Net *output* data streams from a System Bridge can be connected to Pro16 A-Net distributor products such as the A-16D and A-16D Pro to create digital splits as needed.

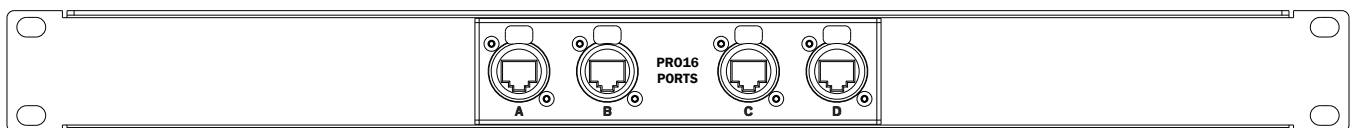
Note: The data from the A-Net Bridge port cannot be connected to an A-Net distributor product.

EtherCon Jacks

The AN-16SBR System Bridge features EtherCon jacks on all ports. EtherCon connectors are a version of Cat-5 connector designed for heavy duty applications, featuring a locking connector similar to the microphone-style XLR connector. EtherCon Cat-5 jacks can accept either a standard Cat-5e cable or a cable equipped with an EtherCon connector.

AN-16SBR Rear Panel Connections

The rear panel of the AN-16SBR System Bridge contains four EtherCon Cat-5 connectors which connect to individual Pro16 products. The ports labeled **A**, **B**, **C**, and **D** on the rear of the System Bridge are used to connect pairs of compatible A-Net Pro16 devices. There is a one-to-one relationship between the pairs of like-named ports on the System Bridge rear panels. The Pro16 device connected to port A on one System bridge is always feeding A-Net to a device connected to port A on the matching System Bridge, etc.



AN-16SBR Front Panel

The front port on the AN-16SBR, labeled **A-Net Bridge** is used to connect from one AN-16SBR to another, carrying the combined A-Net signals from the A, B, C, and D ports on the device's rear panel. The A-Net Bridge connector on the front panel of the System Bridge always carries a four-device data stream and is intended to be connected to the matching connector on another AN-16SBR and never to another A-Net device.

Note: The AN-16SBR is compatible with A-Net Pro16 data only. Do not connect A-Net Pro64 data to this device.

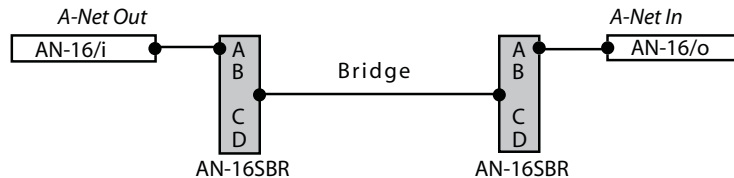
Cable Lengths

In most cases the AN-16SBR System Bridges will be located near the rack-mounted devices connected to them. Keep the interconnecting Cat-5e cable runs as short as possible. Cable runs between A-Net devices and the System Bridge are included in the maximum cable length specification. The Cat-5e cable runs between the A-Net devices connected with System Bridges must not exceed the maximum cable length of 500 feet (150 meters).

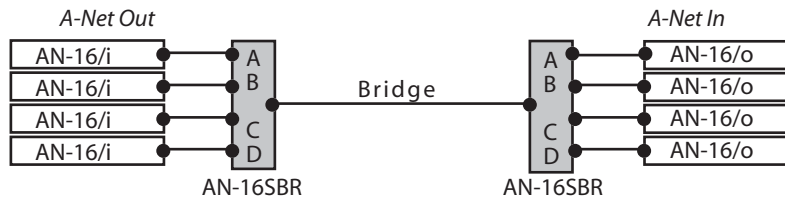
Using the System Bridge

When creating an audio network with Aviom Pro16 products, for example the AN-16/i and AN-16/o, up to four of each module can be used with one System Bridge pair. Pro16 products can be combined as needed to create a flexible and reconfigurable system suited to a wide variety of audio applications. The A-Net ports labeled A, B, C, and D on the AN-16SBR are directly related. Pro16 signals plugged into port A of the AN-16SBR on one side of the network appear at port A on the AN-16SBR on the other side.

For example, if an AN-16/i Input Module is used on one side of the network, a corresponding AN-16/o Output Module will be used on the other side; analog in feeds analog out. The **A-Net Out** on the Input Module is connected to the AN-16SBR Port **A** at one end of the network. The Output Module's **A-Net In** is connected to Port **A** at the other side of the network.



A complete system, in this case a 64 x 0 configuration, would look like this:



Configurations

As seen in the examples above, any combination of AN-16/i and AN-16/o modules can be used to create a network. To create other configurations, simply swap the position of any pair of modules. For example, to create a network with 48 channels sending and 16 channels returning (48 x 16), switch the positions of the devices attached to port D of the AN-16SBR. Any compatible Pro16 input module (such as the AN-16/i-M, Y1 card for Yamaha, or D-16c for DiGiCo) can be substituted in the examples above.

Remember that an A-Net *output* connected to a particular port on one side of the network will always connect to an A-Net *input* of a device connected to the same-lettered port on the other side of the network.

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