



## **MIX-4E Audio Mixer Module**

The **JACQUES MIX-4E Audio Mixer Module** is a Professional quality, four-channel Balanced Audio Mixer Module, that is able to be connected to other MIX-4E Modules to create many Audio Inputs to a single output configuration.

### **Features:**

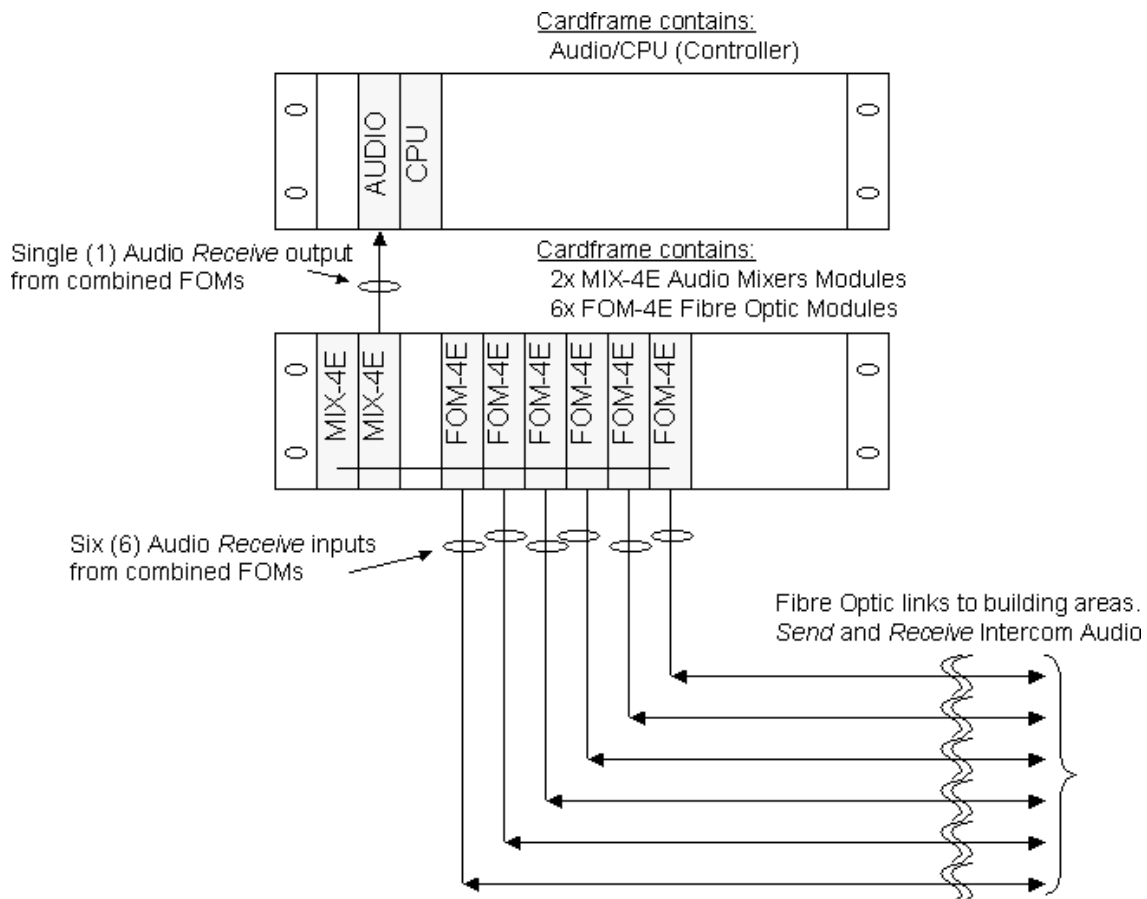
- 3RU high 19" Rack size Module
- Professional quality
- Balanced inputs and outputs
- Four inputs per Module
- Single output
- Can easily cascade more Modules to increase the number of Audio Inputs
- Easily integrates into existing JACQUES Intercom Systems

## Easy Connections

The JACQUES MIX-4E Audio Mixer is easily integrated into any JACQUES Intercom System. A typical use for them is mixing the audio Receive channels coming in from multiple sources in a large building installation.

In Figure 1, FOMs (Fibre Optic Modules) are used to route in the Audio. The Audio Receive is split from the FOMs and sent into the MIX-4E Audio Mixers. Because there are six audio channels used, there are two MIX-4E Mixers needed (4 + 2 channels). The single mixed Audio output from the MIX-4E is sent straight to the JACQUES Audio Module of the Controller.

Figure 1: System block diagram of a typical installation and use of the JACQUES MIX-4E Mixer Modules.



## Block Diagram

The JACQUES MIX-4E Audio Mixer Module has four individual Balanced Audio Inputs, each with their own individual faders (located on the front panel).

They are combined together to form one mixed Balanced Audio output, which also has its own fader. These faders are trimpots and are not normally adjusted, once set.

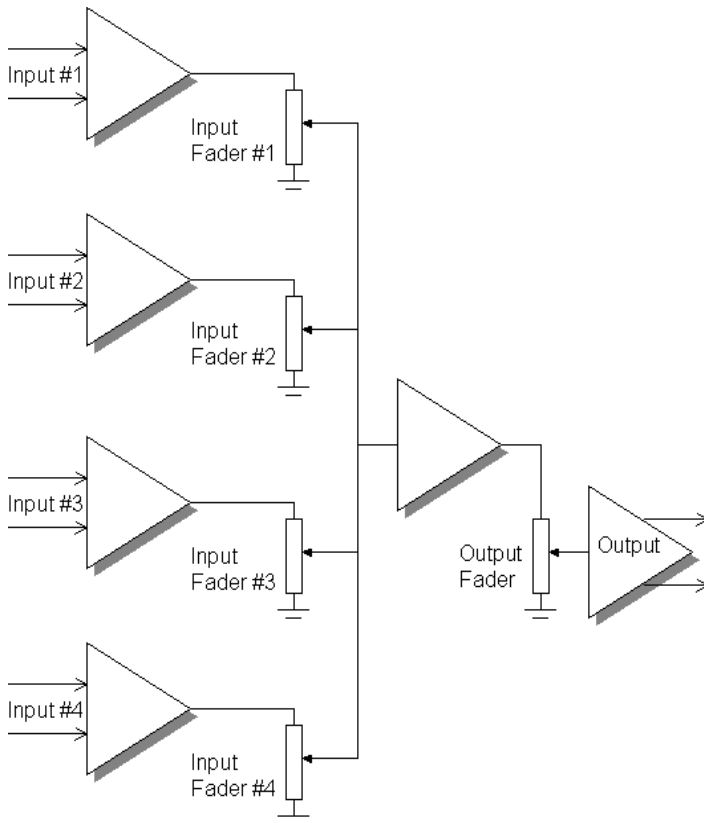


Figure 2: Block diagram of the MIX-4E Module.

## Specifications

Number of Audio Inputs	Four per Module. Modules can be connected together to make multiples of four more/per Module
Number of Audio Outputs .....	One.
Frequency Response .....	20Hz to 20KHz, $\pm 1.5\text{dB}$
Distortion.....	- 75dBu @ 1KHz, with output level @ +4dBm
Overall Gain.....	+22dBm $\pm 1.0\text{dB}$
Input Z.....	30K ohms min
Output Z.....	20 ohms min (able to drive 300-600 ohm load)
JACQUES part #.....	MIX-4E MASTER Module: 50079 MIX-4E SLAVE Module: 50249

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