

Embedder/Disembedder with Channel Mix and Shuffle

The 5600 module is a user-selectable embedder or disembedder. The 5600 handles four channels of audio through AES inputs and outputs. Analog I/O is available as an option. AES inputs are sample-rate converted, allowing the use of asynchronous audio.

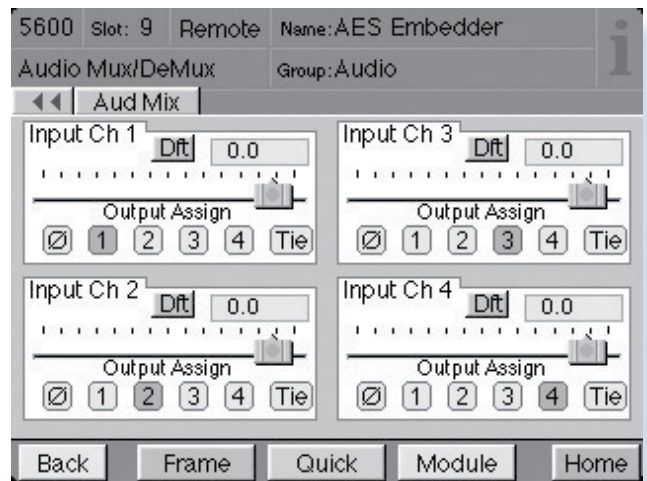
When configured as a multiplexer, the 5600 has one SD SDI video input and two AES audio inputs. These two AES streams are embedded into the serial digital video stream. The output of the module is a video digital stream that contains the original signal and two AES pairs.

When configured as a demultiplexer, audio signals present in the incoming signal are extracted and delivered as standard AES digital audio streams. In both modes, full channel swaps/shuffles can be made on the four embedded audio channels.

Module parameters, such as audio level and channel assignment, can be adjusted with an Avenue Touch Screen or Avenue PC. Individual control is provided over level and phase invert for each channel. Output channels are configurable as the combination (mix) of any input channels.

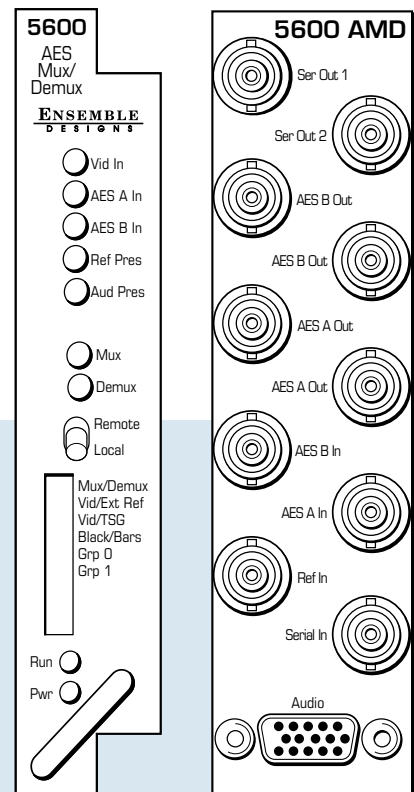
Analog audio I/O options include the 5610 Four Channel Analog Input sub module, the 5611 Four Channel Analog Output sub module, and the 5612 Two Channel Analog I/O sub module. The analog audio options can be used in addition to the AES I/O. A sub module can be plugged onto the 5600 and does not take up a slot in the frame.

Control Menus accessed via Touch Screen & Avenue PC



Features

- » User-selectable embedder and disembedder modes
- » Channel mixer and shuffler
- » Built-in sample rate converter accepts asynchronous inputs
- » Four channel with two AES inputs and two AES outputs
- » Optional analog audio inputs and outputs
- » 20 or 24 bit inputs with 26 bit processing resolution
- » Remote control and alarms
- » Memory registers can be remotely recalled



Video Input Signal

Number One
Signal Type Serial Digital SMPTE 259M
Impedance 75 Ω
Return Loss >15 dB
Max Cable Length 300 meters Belden 1694A

Video Output Signal

Number Two
Signal Type Serial Digital SMPTE 259M
Impedance 75 Ω
Return Loss >15 dB
Output DC None (AC coupled)

Audio Input Signal

Number Two AES
Channels Four total
Signal Type AES Coaxial
 20 or 24 bit
Impedance 75 Ω

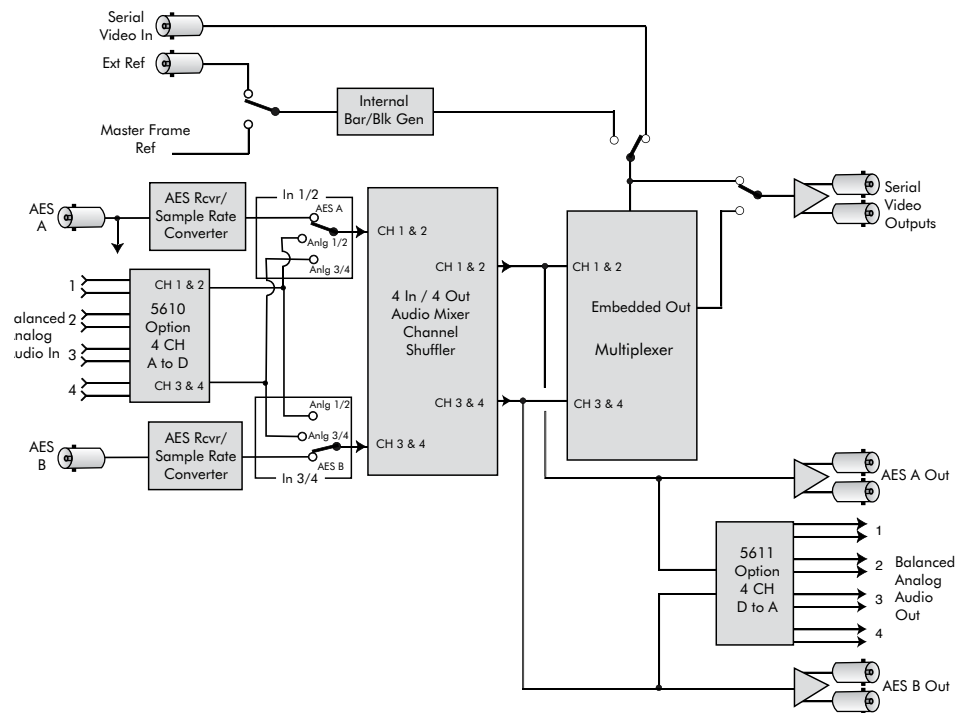
Audio Output Signal

Number Two, AES A and AES B
Channels Four total
Signal Type AES 24 bit
Impedance 75 Ω

General Specifications

Power Consumption 10 watts
Temperature Range 0 to 40°C ambient
Relative Humidity 0 to 95%, noncondensing
Altitude 0 to 10,000 ft

Multiplexer Mode



5600 can accommodate one of the following:
 5610 4 Channel A to D
 5611 4 Channel D to A
 5612 2 Channel A to D
 2 Channel D to A

Demultiplexer Mode

