



MUX/DEMUX-AUDIO EMBED AND DE-EMBED EMBED/DE-EMBED ONTO AN SDI VIDEO DIGIFLEX 1180



OPTION 1180-OP/A



- ◆ Multiplexer
- ◆ De-Multiplexer
- ◆ SDI Input & Output
- ◆ AES/EBU Input & Output
- ◆ PAL-NTSC
- ◆ Analog Stereo Audio Input (Optional)
- ◆ Analog Stereo Audio Output (Optional)

Mounting Frame Options	
1000	- Single Power Supply, Holds 11 Modules
1000/2	- Dual Power Supply, Holds 10 Modules
7200	- Mounting Frame, Holds 1 Module

The 1180 operates in the 1000 DigiFlex frame with a backplane that will accommodate future products for the professional video market.

The 1180 is a high-quality multiplexer de-multiplexer for embedding and de-embedding analog or AES audio onto the SDI signal. The 1180 is a very reliable product for the demanding user. The 1180 is designed to insert analog or digital audio signals onto a single SMPTE 259M serial component digital video signal. Analog embed and de-embed is a plug-in option. Should analog embed be a requirement for future use, **a simple plug-in module attaches to the primary PC board.(1180-OP/A shown above).** In addition, the 1180 module supports full EDH monitoring and insertion.

The multiplex function takes the AES/EBU audio signal and multiplexes the data onto the serial digital signal. The audio signal will be placed onto the SDI video according to SMPTE 272M-1994.

Either 20 or 24 Bit extended audio can be embedded into the video stream. Ancillary data already in the video stream can be removed . Both of these functions are selectable on the front panel through a series of DIP switches.

In addition of multiplexing, the 1180 is a high-quality AES/EBU demultiplexer (analog embed and de-embed is an option). This unit is designed to extract the digital audio signal from a single SMPTE 259M serial component digital video signal. The 1180 has automatic 525/625 input detection. In addition, this module supports full EDH.

The demultiplex function reads the AES/EBU audio signal and sends the data in AES format out the digital audio output port. The signal is inherently synchronized so no delays will be available at this point unless required.

There is a switch on the front card edge that selects from multiplex to demultiplex. Also, a rotary switch is used to select one of four audio groups 1-4, as specified by SMPTE 272M-1994, to be operated on.

A front panel LED indicates when the 1180 detects the selected audio group in the input video stream. Embedded 20 Bit audio or extended 24Bit audio are also indicated on the front card edge. A front panel switch is used to tell the 1180 to remove the audio group selected or to pass it through.

DigiFlex 1180 MULTIPLEXER DEMULTIPLEXER SPECIFICATIONS

VIDEO INPUT:

Standard: SMPTE 259M-ABC
 Video Signal: Component 4:2:2, Composite 4fsc
 Data Rates: 143, 177, 270, 360 and 540Mb/s
 Line Rate: 525/625, 60/50 Hz
 Impedance: BNC, 75Ω
 Return Loss Video: >18dB
 Signal Level: 800 mV ±10%

AUDIO INPUT:

Audio Signal Analog Weco 3-Pin Twisted pair, Analog Stereo Pair, Adjustable
 Analog Gain Adjustment: +3dB to -15dB in 10 increments
 Audio Signal AES/EBU, Balanced: Weco 3-Pin Twisted Pair, 110Ω
 Audio Signal, AES/EBU, Unbalanced: BNC, 75Ω
 Signal Level: 800 mV ±10%

VIDEO OUTPUT:

Standard: SMPTE 259M-ABC
 Video Signal: Component 4:2:2, Composite 4fsc
 Data Rates: 143, 177, 270, 360 and 540Mb/s
 Line Rate: 525/625, 60/50 Hz
 Impedance: BNC 75Ω
 Signal Level: 800 mV ±10%
 DC Offset: 0V, ±0.5V

AUDIO OUTPUT:

Analog Gain Adjustment: +16dB to -2dB in 10 increments
 Audio Signal Analog: Weco 3-Pin Twisted pair, Analog Stereo Pair
 Analog Drive: 2Vrms Max. Into 600Ω
 Audio Signal AES/EBU, Balanced: Weco 3-Pin Twisted Pair, 110Ω
 Audio Signal, AES/EBU, Unbalanced: BNC, 75Ω
 Frequency Response: <±0.15dB, 50Hz to 10KHz
 THD+N: <65bd@1KHz
 Signal-to-Noise: >90db

FRONT CARD EDGE CONTROLS

DIP: 8 Position
 LED: 8 LED's
 Rotary Switch: 10 Position

REAR PANEL INDICATORS

LED: Video In Detect and AES Audio In Detect

ENVIRONMENTAL:

Temperature: 0° to 50°C Ambient
 Humidity: 10% to 90% non-condensing
 Power: 450 mA

MECHANICAL:

Height: 3.2 Inch
 Width: 1.0 Inch
 Length: 10 Inch
 Weight: 7.25 Oz

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PROFESSIONAL SERIES--

modular system products--by **LINK**

1180/042503

Rear Cell I/O
 J2. SDI Out
 J3. SDI In
 J4. AES Out
 J5. AES In
 J6. AES In
 J7. AES Out
 J8. Analog In R
 J9. Analog In L
 J10. Analog Out R
 J11. Analog Out L



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