

# MUX-2131

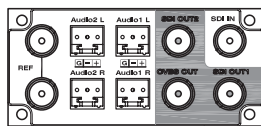
## Digital Video + Analog Stereo Audio Multiplexer

The MUX-2131 is a SDI video and stereo audio multiplexer. It is used in i-MOD platform. It provides 2 SDI outputs and 1 CVBS output for monitoring. Auto equalizing is up to 1000 ft (300 m).

The MUX-2131 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.

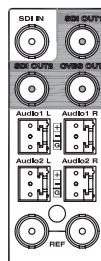
### BACK MODULES

1RU



Analog Audio Input

2RU



Analog Audio Input

### FEATURES

- Supports SMPTE 259M-C, 525/59.94, 625/50 component input
- Various audio input formats: analog stereo
- Supports SMPTE 272M standard
- Input audio can be embedded to designated channel
- Embedding mode selectable: L/R channel swap, copy and mix
- Audio 24bits quantization processing
- 1 CVBS output for monitoring
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

### SPECIFICATIONS

Specifications are subject to change without notice.

#### VIDEO INPUT

Signal Format.....SMPTE-259M-C, 270 Mbps,  
525/59.94, 625/50 component  
Connector.....BNC (x1)  
Impedance.....75  $\Omega$   
Return Loss.....>15 dB @ 270 MHz  
Cable EQ.....<1000 ft (300 m), 270 Mbps,  
Belden1694A cable or equivalent

#### AUDIO INPUT

Signal Format.....Balanced/unbalanced analog audio  
Connector.....3Pin (x4)  
Level.....+20 dB (Max.)  
Impedance.....>20 k $\Omega$

#### DIGITAL VIDEO OUTPUT

Signal Format.....SMPTE-259M-C, 270 Mbps,  
525/625 component  
Connector.....BNC (x2)  
Impedance.....75  $\Omega$   
Return Loss.....>15 dB @ 270 MHz  
Amplitude.....800 mVp-p  $\pm$ 10%  
Jitter.....<0.2 UI  
Rise/Fall Time.....400~1500 ps,  
20%~80% of amplitude  
Overshoot.....<10% of amplitude

#### ANALOG VIDEO OUTPUT

Signal Format.....CVBS  
Standards.....NTSC, PAL  
Quantization.....10 bits  
Connector.....BNC (x1)  
Impedance.....75  $\Omega$   
Return Loss.....>40 dB @ 6 MHz  
Amplitude.....1.0 Vp-p  $\pm$ 3%  
Chr/Lum Delay Diff.....<5 ns  
S/N Ratio.....>70 dB @ 6 MHz

#### ELECTRICAL

Power.....7 W

#### ENVIRONMENTAL

Operating Temperature.....32° ~ 104° F (0° ~ 40° C)  
Relative Humidity.....10% ~ 90%

BLOCK DIAGRAM

