

# MUX-2132

## Digital Video + Analog Stereo Audio Multiplexer with Frame Sync

The MUX-2132 is a digital video + analog stereo audio multiplexer with frame sync. It is used in i-MOD platform. The module inserts the quantized stereo audio into the SDI input. It provides 2 SDI outputs and 1 CVBS output for monitoring. Genlock to reference video input and continuous H/V phase adjustment are available. Equalizing is up to 1000 ft (300 m).

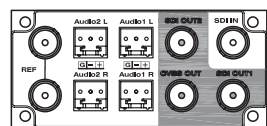
The MUX-2132 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.

### FEATURES

- Supports SMPTE 259M-C, 525/59.94, 625/50 component input
- Various audio input formats: analog stereo
- Supports SMPTE 272M standard
- Input audio gain adjustment range within  $\pm 20$ dB
- Input audio can be embedded to designated channel
- Embedding mode selectable: L/R channel swap, copy and mix
- Audio 24bits quantization processing
- Output frame sync supported; H & V phase adjustment and automatic alignment
- 1 CVBS output for monitoring
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

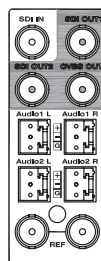
### BACK MODULES

1RU



Analog Audio Input

2RU



Analog Audio Input

### 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

#### REF Video Input

Signal Format.....	CVBS
Connector.....	BNC (x2), hi-z loop-thru supported
Signal System.....	NTSC, PAL

#### 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, 525/59.94, 625/50 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.....	HD: $\leq 270$ ps, SD: 400~1500 ps
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.....	8 W
H Adjustment Precision.....	$\pm 1/2H$
V Adjustment Precision.....	$\pm 1/2F$

#### ENVIRONMENTAL

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

# BLOCK DIAGRAM

