

DMX-2132

Digital Video and 2 Channel AUDIO Demultiplexer with Frame Sync

The DMX-2132 is a digital video and 2 channel audio demultiplexer with frame Sync. It is used in i-MOD platform. It provides 2 analog stereo outputs or 4 AES3 digital audio outputs, 4 AES-3id digital audio outputs. The DMX-2132 demultiplexer extracts embedded audio from the SDI(SMPTE-259M-C, 270 Mbps, 525/59.94, 625/50 component). De-embedding channels are selectable and de-embedded audio can output to designated port. De-embedding modes are selectable, including L/R swap, copy and mix. 1 SDI outputs, SDIOOUT with by-pass protection supported and 2 CVBS outputs for monitoring. Optional audio meter can be inserted on CVBS outputs. Level control is available for each audio channel. H & V phase adjustment and automatic alignment. Equalizing is up to 984 ft (300 m). (Belden 1694A cable or equivalent cables).

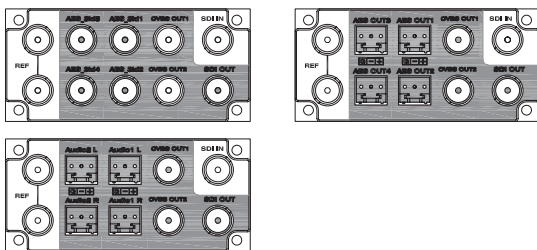
The DMX-2132 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.

FEATURES

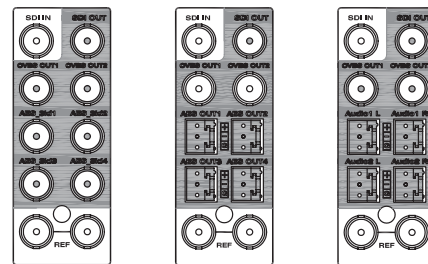
- Supports SMPTE 259M-C, 525/625 component inputs
- Supports SMPTE 272M standard
- 2 SDI outputs, by-pass protection supported
- 4 analog audio de-embedding or 4 AES/AES3-id digital audio outputs(option)
- Output audio gain selectable within ± 20 dB
- De-embedding channel selectable; de-embedded audio can output to designated port
- De-embedded mode selectable, including L & R swap, copy and mixing
- Reference video input
- Supports output frame sync
- Automatic detection of input video and audio loss
- 1 CVBS outputs for monitoring, audio meter available
- Individual level control on each audio channel
- Equalizing up to 984 ft (300 m)
- Non-volatile memory
- Hot-swappable

BACK MODULES

1RU



2RU



SPECIFICATIONS

Specifications are subject to change without notice.

VIDEO INPUT

Signal Format.....SMPTE-259M-C, 270 Mbps,
525/625 component
Connector BNC (x1)
Impedance..... 75 Ω
Return Loss.....>15 dB @ 270 MHz
Cable EQ<656 ft (200 m), 270 Mbps,
Belden1694A cable or equivalent

DIGITAL VIDEO OUTPUT

Signal Format.....SMPTE-259M-C, 270 Mbps,
525/625 component
Connector BNC (x2)
Impedance..... 75 Ω
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
H Adjustment Precision $\pm 1/2$ H
V Adjustment Precision $\pm 1/2$ F

ANALOG VIDEO OUTPUT

Signal Format.....CVBS
Standards NTSC, PAL
Quantization 10 bits/8 bits
Connector BNC (x1)
Impedance75 Ω
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

ANALOG AUDIO OUTPUT

Signal Format..... Analog audio (balanced)
Connector.....3Pin (x4)
Level..... +20dB (maximum)
Impedance..... >33k Ω
THD+N<0.03%
Frequency Response..... ± 0.5 dB, 20 Hz ~ 20 kHz
Timing Jitter.....10 Hz 3Gbps: <2.0 UI
HD: < 1.0 UI SD: < 0.2 UI
Crosstalk.....<-90dB 1kHz~20kHz

AES-3ID DIGITAL AUDIO OUTPUT

Signal Format.....BNC AES-3id
Connector BNC (x4)
Impedance..... 75 Ω
Output Sampling Rate..... 48 kHz
S/N Ratio.....>75 dB
Audio Frequency Response < -80 dB, 20 Hz ~ 20 kHz
Level1Vp-p $\pm 10\%$
Jitter..... < 0.02 UI

AES3 DIGITAL AUDIO OUTPUT

Signal Format.....AES3
Connector 3Pin (x4)
Level5Vp-p $\pm 10\%$
Impedance110 Ω
Jitter< 0.02 UI
Output Sampling Rate48 kHz

ELECTRICAL

Power.....7 W

ENVIRONMENTAL

Operating Temperature 32 $^{\circ}$ ~ 104 $^{\circ}$ F (0 $^{\circ}$ ~ 40 $^{\circ}$ C)
Relative Humidity..... 10% ~ 90%

BLOCK DIAGRAM

