P MX 5364

SD/HD 8 Channel Analog Audio Embedder

Description

The P MX 5364 is a high quality multiformat audio embedder which accepts 8 balanced analog audio inputs and provides 4 SDI outputs. The module also de-embeds all audio from the incoming SDI video stream facilitating substitution of existing embedded audio channels with external analog audio inputs.

All external and de-emebdded audio is fed into a fully featured audio proc stage (24 channel) where each channel has user adjustable gain levels, phase and mute capability. Silence and overload detection is also provided and indicated when using the LYNX control system.

The output from the audio processing stage is passed into a 24 x 16 mono crossbar where audio is assigned for embedding into the 4 output SDI streams.

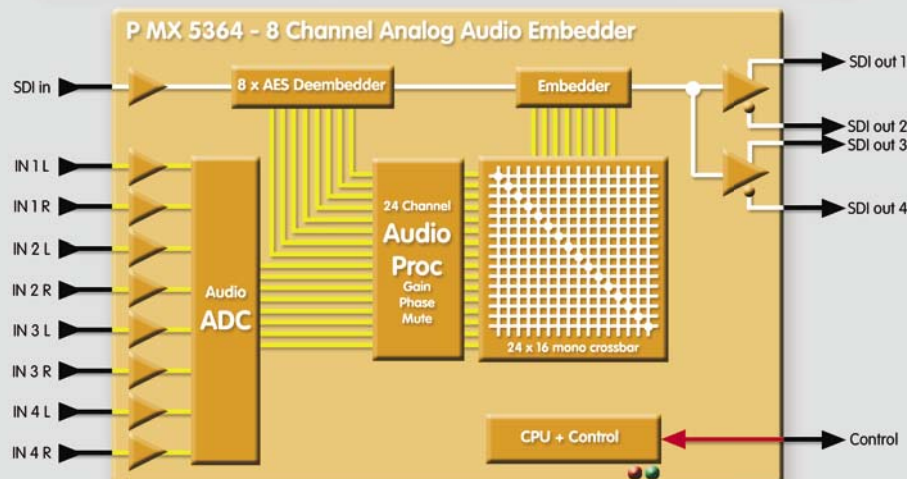If no input video signal is present the embedder can still embed audio on a black frame of video.

Basic control of the module is provided using the card edge matrix display and multifunction switch, and access to advanced audio processing features is possible when used with the optional LYNX control system.

Microprocessor control and on board flash ram enable configurations and settings to be stored within the module (through power cycles and module removal).
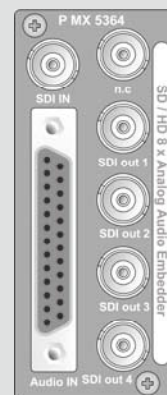
Full Remote control, status monitoring and error reporting is possible when using the LYNX control system.

Features

- Multi-format SD/HD operation with auto detection.
- De-embeds all 16 channels of audio
- 8 external analog audio inputs.
- 4 SD/HD video outputs provided.
- Integrated 24 channel audio processing stage
- Each audio channel (24) has adjustable gain / phase / mute
- Overload and silence detection for each audio channel
- Full 24 bit audio conversion
- Replace, delete or pass existing embedded audio
- 24 x 16 mono output crossbar for embedded audio assignment.

- 16 channel audio embedder, user assigned audio mapping
- Local control via onboard matrix display and menu system
- Full remote control with LYNX control system
- Full SNMP support when used with master controller option
- Hot Swappable.

P MX 5364 - 8 Channel Analog Audio Embedder

Backplane

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Specifications

Video Input

Signal Type	Serial digital video SMPTE, 292M, 344M, 259M C-D with automatic video format and standard detection
Supported formats	**SDTV**: 525 59.94Hz / 625 50Hz **HDTV**: 1080i 59.94Hz / 1080i 60Hz / 1080i 50Hz / 720P 59.94Hz / 720P 60Hz / 720P 50Hz (Field upgradable for additional format support)
No. of inputs	1
Input Impedance	75 Ohms
Connector	BNC
Return loss	> 15dB (270Mbit) > 10dB (1.485GHz)

Video Outputs

No. Of Outputs	4
Signal Type	Serial digital video SMPTE, 292M, 344M, 259M
Output format	Follows input format.
Connector	BNC
Impedance	75 Ohm
Jitter	< 0.2ui (270Mbit) < 0.25ui (1.485GBit)
Return loss	> 15dB (1.5GHz)

Analog Audio Inputs

Signal	Balanced analog audio
No.of inputs	8 (4 x stereo pairs)
Connector	SubD 25 pin female
Impedance	10K Ohms
Max input level	24dBu
0db Full scale presets	12.15,18,22,24dBu (selectable)
Signal to noise ratio	> 90dB (20Hz to 20KHz A weighted)
Distortion	< 0.002% (20Hz to 20KHz)
Frequency Response	+/- 0.2dB (20Hz to 20KHz)
Crosstalk	< - 90dB (20HZ to 20KHz)

Audio Processing

A/D Quantization	24 bit
Sampling	48KHz
de-embedding	16 audio channels (8 x AES pair)
Audio proc	24 channels with individual channel gain adjustment, phase invert and mute. Overload and silence detection.
Output crossbar	24 x 16 mono crossbar for channel assignment and channel shuffle
Embedder	16 audio channels (8xAES) into 4 audio groups (selectable)

Performance

Cable equalization (video)	Up to 250m using Belden 8281 (270Mbit) Up to 120m using Belden 1694A (1.485GHz)
Control	Basic control using local matrix display. Full remote control / status monitoring possible when using a LYNX controller option.
Status Monitoring	Module edge LED indicators for a variety or parameters

Electrical Specifications

Operating Voltage	12 VDC
Power Consumption	< 7W
Safety	IEC 60950/ EN 60950/VDE 0805

Mechanical

Size	283mm x 78mm
Weight	CardModule 120g, connector plate 50g

Specifications subject to change

Ordering Information

Model #	Part Number	Description	Includes
P MX 5364	6155035362	SD/HD 8 channel audio embedder	CardModule, Rear termination Panel, + Mounting Screws, and Reference Manual (CD)