

P MX 5312 D

SERIES 5000

CardModules

Dual Analog Audio Embedder

Description

The P MX 5312 D is a high quality analog audio embedder for A/D conversion and embedding of 2 analog stereo pairs into the SDI input signal. The audio inputs are combined into one audio group (target group selectable 1...4). Full scale range presets are selectable (12,15,18,22,24dBu). Dual standard operation with 4:3 and 16:9 capability combined with selectable 20 or 24 bit count adds to module versatility to address almost any analog audio embedding application.

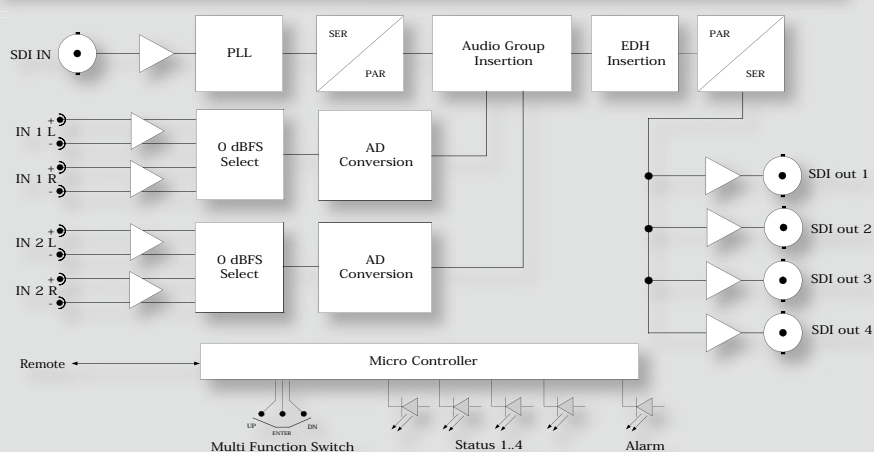
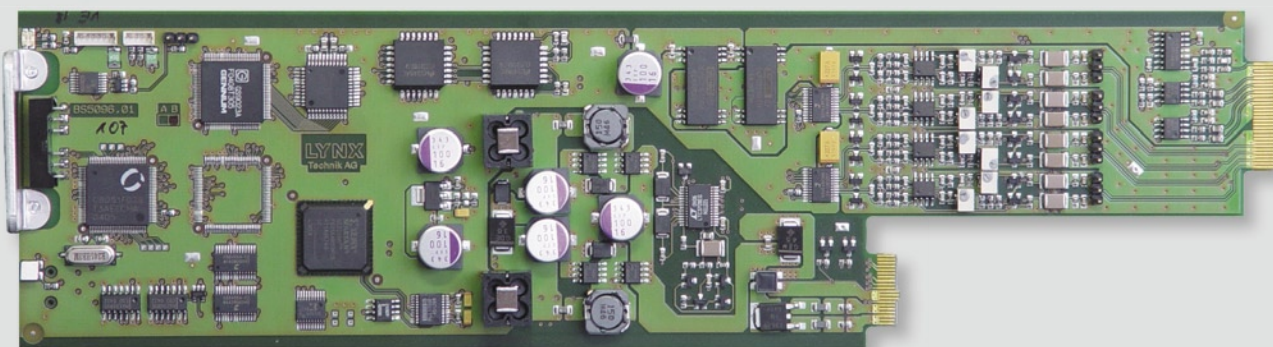
The module provides 4 x SDI outputs with embedded audio.

Microprocessor control and on board flash ram enable configurations and settings to be stored within the module

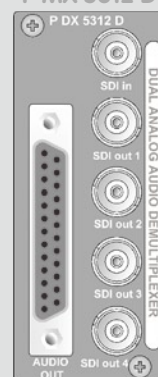
(through power cycles and module removal). Local control capability is provided via the integrated alphanumeric display and control switch. Access to extended feature sets, remote control, status monitoring and error reporting is possible when using the LYNX control system.

Features

- User selectable audio group (1-4) for embedding
- Embeds 1 audio group (2 stereo pairs)
- Dual standard operation (525/625) with auto detection
- Supports 16:9 and 4:3 formatted video
- 270Mbit or 360Mbit operation with auto detection
- Supports 8 and 10 bit digital video
- 20 or 24 bit conversion (selectable)
- Selectable full scale ranging 12,15,18,22,24dBu for analog input.
- High quality balanced audio inputs.
- Four SDI outputs with embedded audio.
- Remote control, status monitoring and error reporting possible when used with LYNX control system.
- Full SNMP support when used with master controller option.
- Hot Swappable.



P MX 5312 D



Backplane

Dual Analog Audio Embedder

Specifications

Video Input

Signal Type	Serial digital video SMPTE 259M A-D with embedded audio SMPTE 272M-C
No. of inputs	1
Input Impedance	75 Ohms
Connector	BNC
Return loss	> 15dB (270Mbit)

Video Outputs

No. Of Outputs	4
Signal Type	Serial digital video SMPTE 259M A-D
Connector	BNC
Impedance	75 Ohm
Jitter	< 0.2ui
Return loss	> 15dB (270Mbit)
Cable equalization	> 250M using Belden 8281 (270Mbit)

Audio Inputs

Signal	2 stereo pairs (balanced analog)
Connectors	Sub D 25 pin female (Tascam pinout)
Impedance	10K Ohms
Max input level	24dBu into 10K Ohms
0dB full scale range presets	12 / 15 / 18 / 22 / 24dBu (selectable)
Signal to noise ratio	> 90dB (20Hz to 20KHz A-weighted)
Distortion	< 0.002% (20 Hz to 20KHz)
Frequency response	+/- 0.2dB (20Hz to 20KHz)
Crosstalk	< -90dB (20Hz to 20KHz)

Performance

Control	Local configuration and audio group selection via multifunction switch and integrated matrix display. Full remote control / status monitoring possible when using a LYNX controller option.
Status Monitoring	Module edge LED indicators for a variety of parameters

Electrical Specifications

Operating Voltage	12 VDC
Power Consumption	< 7W
Safety	IEC 950/ EN 60950/VDE 0805

Mechanical

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

Ambient

Temperature	5°C to 40°C Maintaining specifications
Humidity	90% Max non condensing

Specifications subject to change

Settings and Control

Local Settings

Group select	1/2/3/4 (Select one of 4 audio groups)
Audio Bits	20 / 24 bit
0dB full scale ranging	Select between 12 / 15 / 18 / 22 / 24dBu
Reset Factory Defaults	YES / NO

Additional Settings Available from Control System

No additional settings from control system

On Board Indicators / LEDs

SDi status. Present / Not present
Audio status. Present / Not present
General Alarm Indicator - 3 color

Ordering Information

Model #	Part Number	Description	Includes
P MX 5312 D	6155009220	Dual Analog Audio Embedder	CardModule, Rear termination Panel, + Mounting Screws, and Reference Manual