

### SD/HD Analog Audio Embedder

#### Description

The P MX 3362 is a versatile multiformat audio embedder which accepts 2 analog stereo pair inputs. The SDI Input video standard (and format) is automatically detected.

The analog input can be scaled using a selection of full scale presets before being converted to a digital signal and passed to a 4 x 16 mono crossbar. The crossbar allows the 4 input channels to be mapped to any of the 8 AES inputs to the embedder. Any existing embedded audio can be replaced, deleted or passed transparently through the embedder.

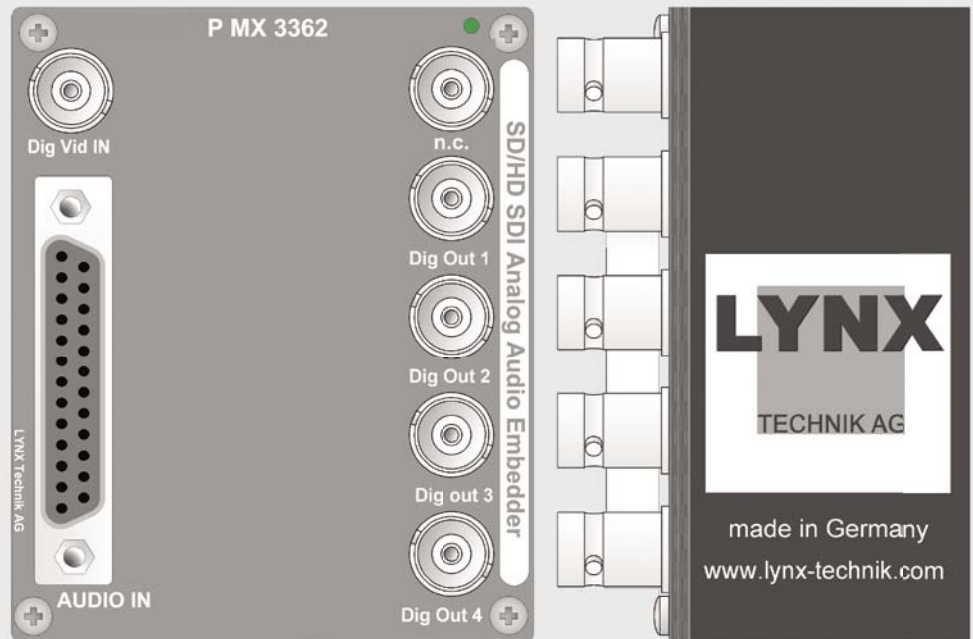
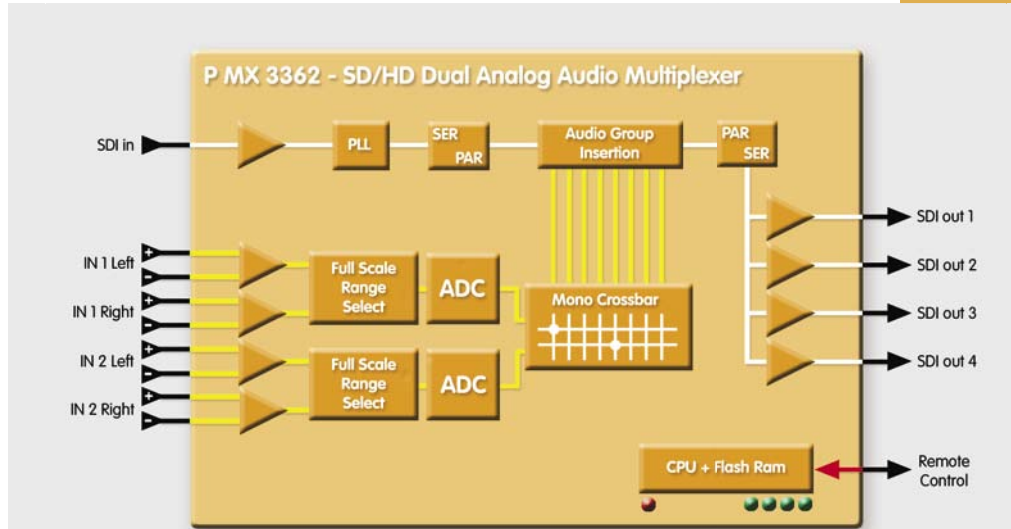
4 x SDI outputs are provided with embedded audio, if the embedder is not being used then the module also serves as a 1 > 4 multiformat re-clocking distribution amplifier.

Microprocessor control and on board Flash RAM enable configurations and settings to be stored within the module.

Remote control, status monitoring and error reporting is possible when using the LYNX control system.

#### Key Features

- Multi-format SD/HD operation with auto detection.
- 2 x Analog stereo pair inputs.
- Analog full scale preset selection 12/15/18/20/22/24 dBu.
- 4 x 16 mono crossbar to configure embedder inputs.
- Existing embedded audio can be replaced, deleted or passed transparently.
- 4 x SDI outputs with embedded audio.
- Also functions as a 1>4 re-clocking video distribution amplifier.
- Remote control via USB Service Adapter or LYNX control system.



Actual Size



## SD/HD Analog Audio Embedder

This module is part of the 3000 series of MiniModules, which offer high quality and flexibility in a very small form factor ideal for applications where space is at a premium. The modules can be used either stand alone using the optional power supply brick or

as part of a tightly integrated space saving system where multiple MiniModules can be mounted using the optional R FR 3005 rack frame, with optional expansion for redundant power and remote control using one of the LYNX controllers and control software.

## Specifications

Video Input	
Signal Type	Serial digital video SMPTE, 292M, 344M, 259M C-D with automatic video format and standard detection
Supported formats	<b>SDTV:</b> 525 59.94Hz / 625 50Hz <b>HDTV:</b> 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 ( with embedded audio )
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	
No of inputs	4 (2 stereo Pairs)
Signal Type	Balanced Analog Audio
Connector	Female 25pin SubD
Input Impedance	15K Ohms
0 dB full scale range	Selectable: 12, 15, 18, 20, 22, 24 dBu full Scale Level
Noise Floor	< -90dB (A weighted)
Distortion	< 0.002% (20Hz-20KHz)
Frequency Response	+/- 0.2dB (20Hz to 20KHz)
Crosstalk	<-90dB (20Hz-20KHz)
Performance	
Mono Crossbar	4 x 16 Mono crossbar for embedder input selection
Audio Conversion	24 bit quantization
Embedder	Replace / delete or transparent pass through of existing embedded audio (selectable)
Cable equalization	Up to 250m using Belden 8281 (270Mbit) Up to 140m using Belden 1694A (1.485GHz)
Control	Basic local setup with integrated DIP switch. <b>NOTE</b> Use of USB Service Adapter or LYNX control system recommended for module operation.
Electrical Specifications	
Operating Voltage	5 VDC
Power Consumption	< 5W
Power connector	Lemo 5 pin locking connector
Safety	IEC 60950/ EN 60950/VDE 0805
Mechanical	
Size	85.5mm x 71mm x 38.7mm + connections
Weight	200g
Ambient	
Temperature	5°C to 35°C Maintaining specifications
Humidity	80% Max (non condensing)

## Options

### Power Supply Options

<b>R PS 3601 E</b>	External power brick - wall plug style. (Europe)
<b>R PS 3601 U</b>	External power brick - wall plug style (USA)
<b>R PS 3601-3</b>	In-line power supply - suitable for all regions
<b>R PS 3604</b>	In-line supply for 4 MiniModules - suitable for all regions

### Mounting Solutions

<b>R FR 3020</b>	Wall mounting brackets for individual MiniModules (3 sets)
<b>R FR 3004</b>	Wall mount for 2 HD MiniModules
<b>R FR 3005</b>	19" rear rack mount plate for 5 HD MiniModules
<b>R FR 3010</b>	Central power supply and control chassis
<b>R PS 5010</b>	Redundant power supply for R FR 3010

### Controllers

<b>R CT 3002</b>	USB Service Adapter and control software for single modules
<b>R CT 5020</b>	Rack Controller and control software
<b>R CT 5010</b>	Rack Bus Expander
<b>R CT 5030</b>	Master Controller

**Note.** Due the many user adjustments and settings provided for this module the use of the LYNX Control system or the USB Service adapter is recommended to preset module parameters prior to use.