

P MX 3312(3) D

SERIES 3000

MiniModules

Dual Analog Audio Multiplexer

Description

The P MX 3312 D is a analog audio embedder designed primarily for broadcast and professional applications. The module accepts two balanced stereo pair inputs which are combined into one audio group and embedded into the SDI input signal (target audio group 1..4 is user selectable). Existing audio groups can be overwritten, deleted or passed transparently. Four SDI outputs with embedded audio are provided. The mod-

ule has a built in micro-controller with local controls, status and alarm indicators and well as internal flash ram for storing setups. Remote control and status monitoring is possible when used with the rack frame option and one of the available controller options with LYNX control software

Key Features

User selectable audio group insertion. (1..4)

Dual standard (525 / 625)
Auto detect

2 x balanced analog
stereo pair inputs (com-
bined into one audio
group)

Adjustable 0dB full scale
ranging

24 bit conversion, 48 KHz
sample rate.

270 and 360 Mbit
operation (auto detect)

4:3 / 16:9 aspect ratios..

8 and 10 bit video.

Video to green if SDI input
lost.

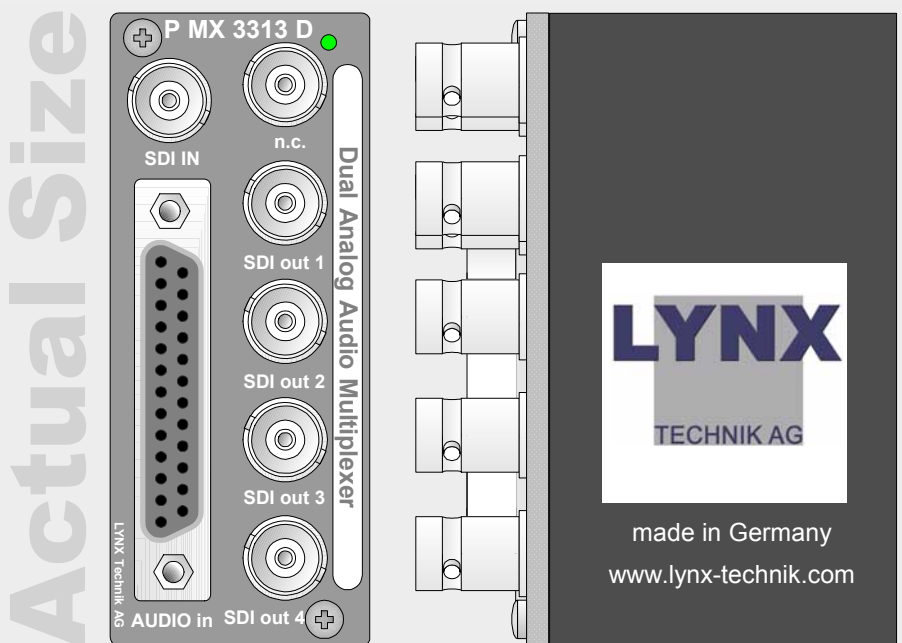
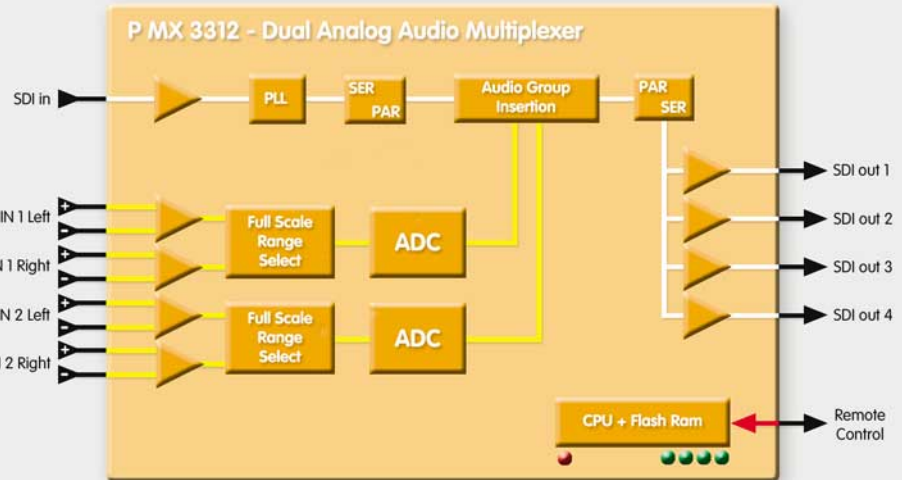
No audio insertion if audio
input lost.

Local DIP-switches and
LED's for local control and
status monitoring

Microprocessor controlled

Flash ram storage for
module settings.

Remote control interface



MUX / DEMUX

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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 up to 10 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

INPUTS

SDI Video	1 x Serial Digital Video. SMPTE 259M-CD (270/360Mbps)
Input impedance	75 Ohm
Connectors	BNC
Return Loss	> 15dB (270 MHz)
Max Cable length	250m (Belden 8281 / 270Mbit/s)

Inputs (Audio)

Signal	2 x balanced stereo inputs. (combined into one audio group)
Connectors	25 pin Sub D (Standard TASCAM pinout)
Input impedance	15 KOhm
Max input level	24 dBu
*0dB Full Scale Level	P DX 3312 D = Selectable 12dBu, 15dBu, 18dBu P DX 3313 D = Selectable 20dBu, 22dBu, 24dBu

Outputs

Signal (Video)	4 x Serial Digital Video. SMPTE 259M-CD (270/360 Mbps) with EDH
Connectors	BNC
Output impedance	75 Ohm
Jitter	< 0.2 ui

Operating Modes

Embedding	Embed audio 2 x analog stereo inputs (one group) into one of four user selectable groups in the SDI input stream.
Delete	Delete all selected audio groups

Performance

Audio sample rate	48 KHz
Audio sample size	24 bit
Noise Floor	< -90 dBu (A-weighted)
Distortion	< 0.005% (20 Hz to 20 KHz)
Frequency Response	+/- 0.1dB (20 Hz to 20 KHz)
Crosstalk	< 90dB (20 Hz to 20 KHz)
Control	Local settings (Dip-Switch). Selection of audio group (1..4) or via remote with LYNX controller option
Status Monitoring	Local LED's

Electrical Specifications

Operating Voltage	+ 5V DC
Power Consumption	3.5 VA
Connection	DC input via 5 pin locking bayonet connector
Safety	IEC 950/ EN 60950/VDE 0805

Mechanical

Size	85.5mm x 35.3mm x 50.3mm + connectors
Weight	350g

Ambient

Temperature	5°C to 35°C Maintaining specifications -20°C to +70°C Storage
Humidity	Max 80% non condensing

* NOTE

Please order the correct version. The full scale range presets are different for the two primary market areas:

P MX 3312 D = European Markets

P MX 3313 D = US Markets

Options

Power Supply Options

R PS 3001 E	External power brick - wall plug style. (Europe)
R PS 3001 U	External power brick - wall plug style (USA)
R PS 3001-3	In-line power supply - suitable for all regions
R PS 3004	In-line supply for 4 MiniModules - suitable for all regions

Mounting Solutions

R FR 3000	Wall mounting brackets for individual MiniModules (5 sets)
R FR 3004	Wall mount for 4 MiniModules
R FR 3005	19" rear rack mount plate for 10 MiniModules
R FR 3010	Central power supply and control chassis
R PS 5010	Redundant power supply for R FR 3010

Adapter Cables

R PS C 15	DC power and control extension cable (1.5m)
R PS C 25	DC Power and control extension cable (2.5m)
R AC F25-8	SubD > 8 x XLR female audio adapter cable (1m)

Controllers

R CT 3000	Service Adapter and control software for single modules
R CT 5020	Rack Controller and control software
R CT 5010	Rack Bus Expander
R CT 5030	Master Controller

Note.

Local controls on the module allow for basic set up and configuration, which is suitable for most applications. Access to extended feature sets requires the use of a controller option or the RCT 3000 Service Adaptor and control software.