

# P MX 3214 B

SERIES 3000

MiniModules

## Quad AES Audio Multiplexer

### Description

The P MX 3214 B is a digital audio embedder designed primarily for broadcast and professional applications. The module accepts four external AES3id inputs which are combined into two audio groups and embedded into the SDI input signal (target audio groups 1..4 are user selectable). Existing audio groups can be overwritten, deleted or passed transparently. Four SDI outputs with embedded audio are provided. The module

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)

Unbalanced AES3id audio inputs with isolation transformers.

Dual standard (525 / 625) Auto detect

4:3 / 16:9 aspect ratios.

270 and 360 Mbit operation (auto detect)

20 and 24 bit audio.

8 and 10 bit video.

Supports asynchronous and synchronous audio inputs.

Selectable bypass of sample rate conversion

Video to green if SDI input lost.

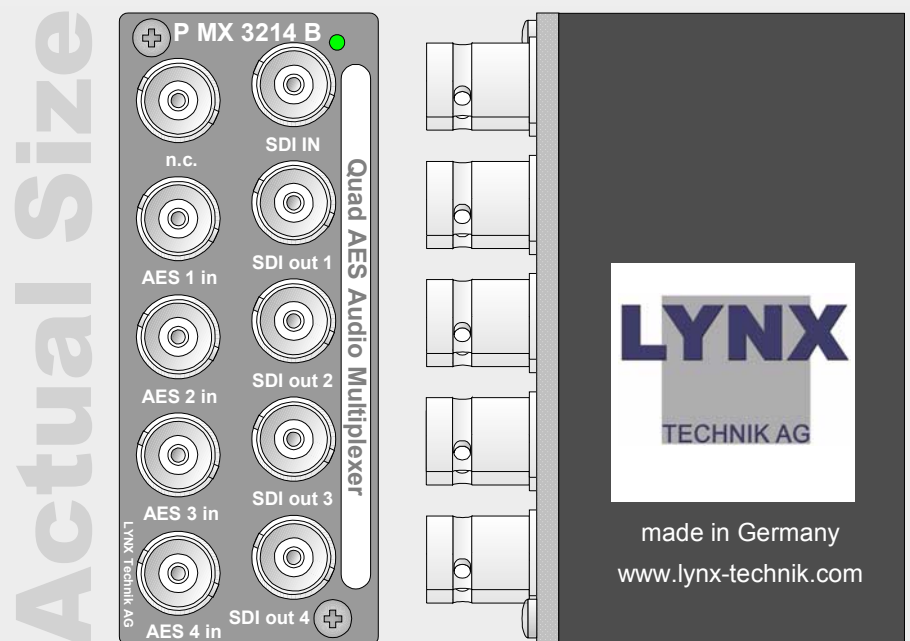
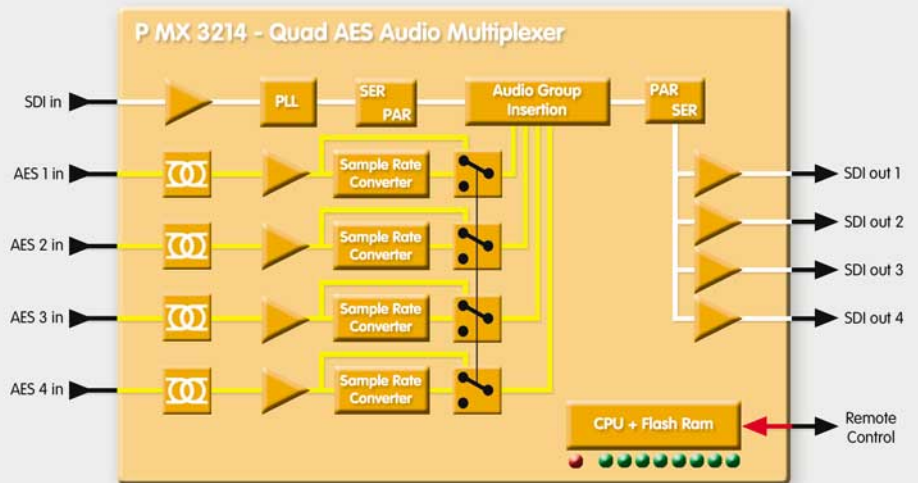
No audio insertion if audio input lost.

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

Microprocessor controlled

Flash ram storage for module settings

Remote control interface



Actual Size

MUX / DEMUX

## Quad AES Audio Multiplexer

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	4 x single ended AES3id (SMPTE 272M-ABCEFG)
Connectors	BNC
Input impedance	75 Ohm

### 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 4 x AES (two groups) into two of four user selectable groups in the SDI input stream.
Delete	Delete all selected audio groups

### Performance

AES input sample rate	48 KHz synchronous or 30 KHz...48KHz asynchronous
AES sample size	20 or 24 bit
Control	Local settings (Dip-Switch). Selection of audio groups (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

## Options

### Power Supply Options

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

### Mounting Solutions

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

### Adapter Cables

<b>R PS C 15</b>	DC power and control extension cable (1.5m)
<b>R PS C 25</b>	DC Power and control extension cable (2.5m)

### Controllers

<b>R CT 3000</b>	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.

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.