

Dual Analog Audio Demultiplexer

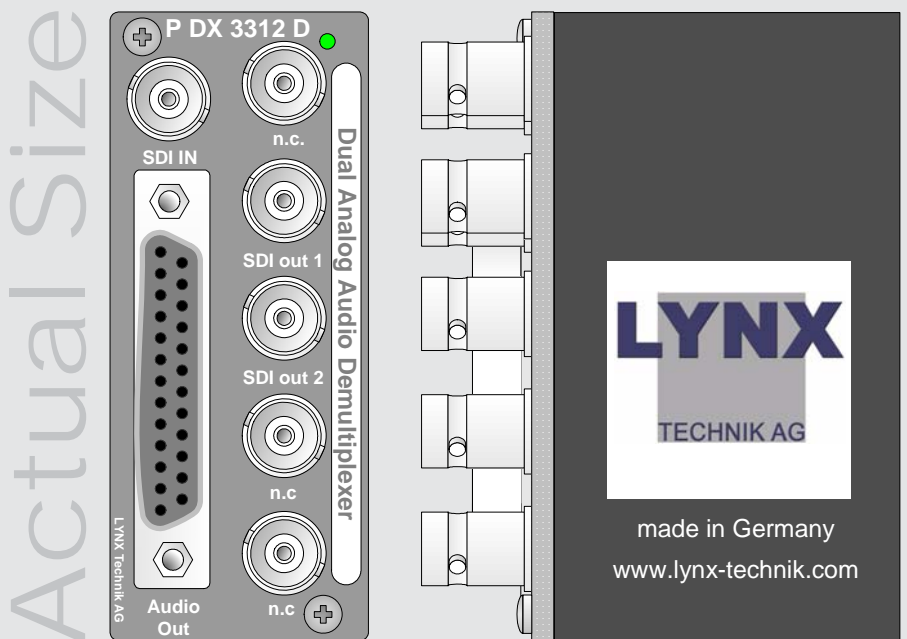
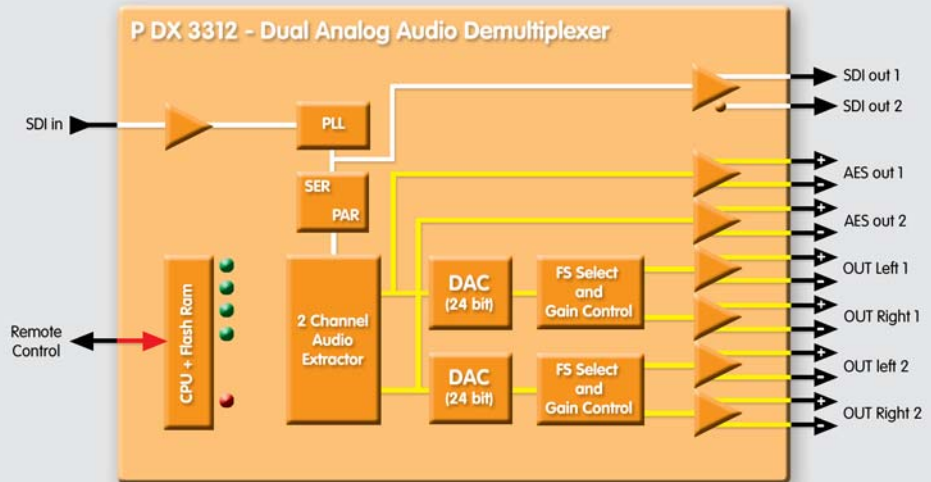
Description

The P DX 3312 D provides analog and digital audio de-embedding plus SDI distribution capability. The module accepts one digital video (SDI) input signal that can have up to four audio groups embedded. One audio group can be selected, de-multiplexed and output as balanced AES3 digital audio plus balanced analog audio signals. Analog output stages have full scale range selection plus gain controls. The four relocked SDI outputs lets this module double as a 1 > 2 digital distribu-

tion amplifier. 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 groups. (1 through 4)
- Dual standard operation (525 / 625). Auto detection
- 4:3 / 16:9 aspect ratios.
- 20 or 24 bit audio outputs.
- Supports 8 and 10 bit video.
- Auto detect 270 /360 Mbit operation.
- Balanced analog audio outputs plus balanced AES3 digital outputs.
- Selectable full scale ranging for analog outputs plus adjustable gain.
- Two relocked outputs of input video.
- Local DIP-switch, push-button and LED's for local control and status monitoring
- Microprocessor controlled.
- Flash ram storage for module settings
- Remote control interface.



Actual Size

Dual Analog Audio Demultiplexer

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 with embedded audio SMPTE 272M-C
Input impedance	75 Ohm
Connectors	BNC

Video Outputs

Signal (Video)	2 reclocked Serial Digital Video. SMPTE 259M-C
Connectors	BNC
Output impedance	75 Ohm
Output level	0.8V p-p
Return loss	> 15dB (270 MHz)

Analog Audio Outputs

Signal	2 x balanced stereo outputs
Connection	Sub D 25 pin female
Impedance	< 50 Ohm
Max Level	24 dBu into 10 KOhms
0dB FS level	Selectable (12dBu, 15dBu, 18dBu, or 24dBu)
Adjustable Gain	+/- 3dB from full scale preset

Digital Audio Outputs

Signal	2 x balanced AES 3
Connection	Sub D 25 pin female
Impedance	110 Ohm (balanced)

Performance

Cable Equalization	> 250m (Belden 8281 / 270Mbit/s)
Jitter	< 0.2 ui
Control	Local settings (Dip-Switch). Selection of Audio Group (1..4)
Status Monitoring	Signal presence detection

Electrical Specifications

Operating Voltage	+ 5V DC
Power Consumption	5 W
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

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 M25-8	SubD > 8 x XLR male 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.