yellobrik

PDM 1484 D

LYNX | Centraal

yelloGUI/

AES/Analog Audio Embedder / De-embedder (balanced AES/ Analog)

- · Simultaneous embedding and de-embedding
- Ideal as bidirectional master
- 3G-SDI Level A and Level B support
- SDI video formats up to 12G-SDI (2160p60)
- 4 x AES/Analog inputs / outputs with selectable audio groups
- Optional Fiber I/O
- · Integrated 1 kHz test tone generator
- · Automatic PCM / encoded audio detection
- · Auto black if no video present
- Selectable SDTV 24 bit mode
- · Video and Audio present LED indicators

The PDM 1484 D is a versatile AES audio embedder and de-embedder designed for a wide range of SDI video formats up to 12G. It supports balanced AES and analog audio I/O using a 25 pin SubD connector. The 25 pin SubD breakout board RBO A025 is included.

Audio groups are selected using the rotary switches or control software. It is possible to embed and de-embed additional audio groups by cascading modules together. Simultaneous embedding and de-embedding means the module will de-embed and output the audio from the selected audio group before overwriting with new audio (if required). The module automatically detects audio formats and will deactivate the sample rate converters to preserve encoded bit streams such as DolbyE. A 1 kHz test tone generator is included for audio testing

Analog audio processing for embedding can be set to balanced and unbalanced input modes. Balanced I/O can be 24, 22, 20, 18, 15, 12 dBu, professional line level or user defineable fullscale level.

The "auto black" mode uses a black video frame if no SDI input is present. This allows the module to embed audio even when no video source is available. This mode is useful if the module is being used in an "audio only" application.

The module is also compatible with the LynxCentraal and yelloGUI control software, which provides access to a host of additional internal settings.

Fiber I/O Options:

SDI Fiber Transmitter Options						
Model	Description	cription Power				
OH-TX-12G-LC	12G SFP Fiber TX - Singlemode - LC conn 10km	- LC conn 10km -5 +0.5dBm				
OH-TX-12G-ST	12G SFP Fiber TX - Singlemode - ST conn 10km					
OH-TX-12G-XXXX-LC	12G CWDM SFP Fiber TX - SM - LC conn10km					
SDI Fiber Receive	5DI Fiber Receiver Options					
Model	Description	Sensitivity -10dBm (12G) -14dBm (6G/3G) -16dBm (1.5G)				
OH-RX-12G-LC	12G SFP Fiber RX - Singlemode - LC Connector					
OH-RX-12G-ST	12G SFP Fiber RX - Singlemode - ST Connector	-10dBm (12G/6G) -14dBm (3G/1.5G)				
SDI Fiber Transceiver Options						
Model	Description	Power	Sense			
OH-TR-12G-LC	SFP Fiber RX/TX - Singlemode - LC Conn 10km	-5 0.5 dBm	-10dBm (13G/6G) -14dBm (3G/1.5G)			
OH-TR-12G-XXXX-LC	12G CWDM SFP Fiber RX/TX - SM - LC Conn 10km	-2 +3 dBm	-10dBm (13G/6G) -14dBm (3G/1.5G)			

XXXX=Wavelength. 18 according to ITU T G692.2 1270nm through 1610nm

CAUTION: This is a high power module. If mounting the module in the RFR 1200 rack frame please leave an empty slot each side of the module to allow for adequate airflow to prevent the risk of overheating.



Technical Specifications

SDI I/O	1 x SDI video input on BNC connector (75 Ohm)

SMPTE 259M, SMPTE 292M, SMPTE 424M, SMPTE 2081-1, SMPTE 2082-1

Multi-standard operation from 270Mbit/s to 12Gbit/s

SDTV (525/625)

720p (23.98/24/25/29.97/30/50/59.94/60 Hz)

1 x SDI video output on BNC connector (75 Ohm)

1080psf (23.98/24/25/29.97/30 Hz)

1080i (50/59.94/60 Hz)

1080p (23.98/24/25/29.97/30/50/59.94/60 Hz) 2160p (23.98/24/25/29.97/30/50/59.94/60 Hz)

Autom	Electrical Re	turn Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB	to 12GHz >4dB
	Automatic cable EO	270Mbit/s	1.5Gbit/s	3Gbit/s	6Gbit/s	12Gbit/s
		340m*	200m*	150m*	100m*	100m*
	cable EQ	Е	Belden 1694	1	Beldei	n 4794R

Fiber I/O	(optional) 1 x fiber optic input and output (see table)
	SMPTE 297M - 2006
AES I/O	4 x AES3 balanced inputs on 25 pin SubD Connector (110 Ohm)
	4 x AES3 balanced outputs on 25 pin SubD Connector (110 Ohm)
	AES group selection provided via rotary switch
Analog	4 x Analog audio input on 25 pin SubD Connector (10k Ohm)
Audio I/O	4 x Analog audio output on 25 pin SubD Connector (150 Ohm)
	Balanced I/O mode for 24, 22, 20, 18, 15, 12 dBu, professional line level and user defineable full scale level (selectable)
Power	+12VDC @ 12.96W nominal - (supports 8 - 24VDC input range)
Physical	Size (incl. connectors): $126mm \times 90mm \times 22mm (4.96" \times 3.54" \times 0.86")$ Weight (excl. SFP): $200g (7.05oz)$
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)

*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

PDM 1484 D - (EAN# 4250479329065)

Module, RBO A025, AC power supply

PDM1484-D_DS_rev04 Specifications subject to change





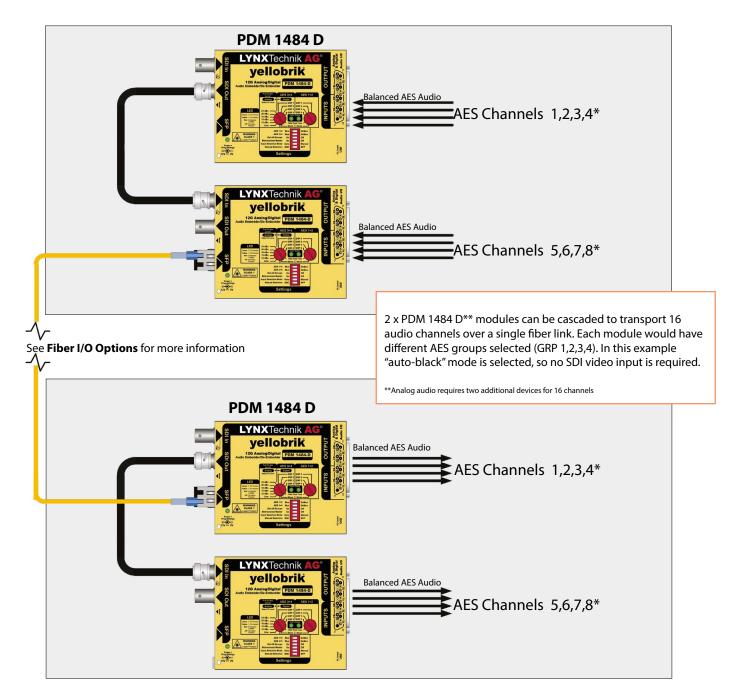
Model #

Includes



PDM 1484 D Application

The basic SDI embedding and de-embedding applications for the PDM 1484 D are somewhat obvious, but with the "auto-black" mode the modules can be used to transport audio signals only. This provides a very cost-effective way to transport multichannel audio over fiber without the need for external optical multiplexing. The example below shows how two modules in each location can be used to transport 16 x digital audio signals between two locations over fiber.



^{*}In-/Outputs can also be Analog Audio of different input level per device.

