

## AES Audio Embedder / De-embedder (unbalanced AES)

- Multifunction - use as an embedder or de-embedder
- Ideal as bidirectional master
- 3G-SDI Level A and Level B support
- SDI video formats up to 12Gbit (2160p60)
- 4 x AES inputs or outputs with selectable audio groups
- Fiber I/O option for long distance transmission
- 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
- LynxCentraal & yelloGUI compatible for additional internal settings

The PDM 1484 B is a versatile AES audio embedder and de-embedder designed for a wide range of SDI video formats up to 12G-SDI. It supports unbalanced AES3id audio I/O using 75 Ohm BNC connections.

Audio groups are selected using the rotary switches, and its 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.

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. A 1 kHz test tone generator is included for audio testing purposes.

The module is also compatible with LynxCentraal and yelloGUI software package, which provide access to a host of additional internal settings which include manual insertion of metadata (AFD,WSS,VI).



Shown with optional fiber SFP installed

## Technical Specifications

<b>SDI Input</b>	1 x SDI video on 75 Ohm BNC connector				
	SMPT 259M, SMPT 292M, SMPT 424M, SMPT 2081-1, SMPT 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)			
	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)			
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB	to 12GHz >4dB
	Automatic Cable EQ	270Mbit/s 340m	1.5Gbit/s 200m	3Gbit/s 150m	6Gbit/s 100m
				12Gbit/s 100m	
				Belden 1694A	Belden 4794R
<b>SDI Output</b>	1 x SDI video on 75 Ohm BNC connector				
	SMPT 259M, SMPT 292M, SMPT 424M, SMPT 2081-1, SMPT 2082-1				
	Electrical Return Loss:	to 1.5GHz >15dB	to 3GHz >10dB	to 6GHz >7dB	to 12GHz >4dB
<b>Fiber I/O</b>	(optional) 1 x fiber optic input and output (see table)				
	SMPT 297M - 2006				
<b>AES I/O (switchable)</b>	4 x AES3id unbalanced inputs or outputs on 75 Ohm BNC connectors AES group selection provided via rotary switch				
<b>Power</b>	+12VDC @ 10.87W nominal - ( supports 8 - 14VDC input range )				
<b>Physical</b>	Size (incl. connectors): 140mm x 90mm x 22mm (5.51" x 3.54" x 0.86") Weight (excl. SFP): 195g (6.88oz)				
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)				
<b>Model #</b>	PDM 1484 B - ( EAN# 4250479329058 )				
<b>Includes</b>	Module, AC power supply				

## Fiber I/O Options:

SDI Fiber Transmitter Options			
Model	Description	Power	
OH-TX-12G-LC	12G SFP Fiber TX - Singlemode - LC conn. - 10km	-5 ... +0.5dBm	
OH-TX-12G-ST	12G SFP Fiber TX - Singlemode - ST conn. - 10km	-5 ... +2dBm	
OH-TX-12G-XXXX-LC	12G CWDM SFP Fiber TX - SM - LC conn. - 10km	-2 ... +3dBm	
SDI Fiber Receiver Options			
Model	Description	Sensitivity	
OH-RX-12G-LC	12G SFP Fiber RX - Singlemode - LC Connector	-10dBm (12G) -14dBm (6G/3G) -16dBm (1.5G)	
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

PDM1484-B\_DS\_rev02 Specifications subject to change

