

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

- Simultaneous embedding and de-embedding
- 3G SDI Level A and Level B support
- SDI video formats up to 3Gbit (1080p60)
- 4 x AES 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
- Internal full mono audio shuffling via yelloGUI

The PDM 1284 D is a versatile AES audio embedder and de-embedder designed for a wide range of SDI video formats up to 3Gbit. It supports balanced AES3 audio I/O using a 25 pin SubD connector.

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 Dolby.

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 yelloGUI software package, which provides access to a host of additional internal settings which includes manual insertion of metadata (AFD,WSS,VI).



Shown with Fiber SFP Option Installed

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

An SDI fiber input and output is also provided with a variety of plug in SFP options available.



### Technical Specifications

<b>SDI Input</b>	1 x SDI video on 75 Ohm BNC connector
	SMPT E 424M, SMPT E 292M, SMPT E 259M 3G Level A & B-DL & B-DS according to SMPT E ST 425-1 and ST 425-2 (3D) with image formats 1280 x 720 and 1920 x 1080 For a detailed list of supported formats please refer to the article in our knowledge base ( <a href="http://www.lynx-technik.com">www.lynx-technik.com</a> > support > tech.support)
	Multi-standard operation from 270Mbit/s to 3Gbit/s SDTV (525/625) 720p and 1080p (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)
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz
	Automatic cable EQ (Belden 1694A cable) 340m @ 270Mbit/s, 150m @ 1.5Gbit/s, 120m @ 3Gbit/s
<b>Fiber I/O</b>	(optional) 1 x fiber optic input and output (see table)
	SMPT E 297M - 2006
<b>SDI Output</b>	1 x SDI video on 75 Ohm BNC connector
	SMPT E 424M, SMPT E 292M, SMPT E 259M For a detailed list of supported formats please refer to the article in our knowledge base ( <a href="http://www.lynx-technik.com">www.lynx-technik.com</a> > support > tech.support)
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz
<b>AES Inputs</b>	4 x AES3 balanced inputs on 25 pin SubD Connector (I10 Ohm)
	AES group selection provided via rotary switch
<b>AES Outputs</b>	4 x AES3 balanced outputs on 25 pin SubD Connector (I10 Ohm)
	AES group selection provided via rotary switch
<b>Power</b>	+12VDC @ 4.2W nominal - ( supports 8 - 14VDC input range )
<b>Physical</b>	Size: 128mm x 90mm x 22mm (5.04" x 3.54" x 0.86") including connectors Weight: 200g (7.05oz)
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
<b>Model #</b>	PDM 1284 D - ( EAN# 4250479312852 )
<b>Includes</b>	Module, AC power supply

PDM1284-D-rev10 Specifications subject to change

### PDM 1284 D Application

The basic SDI embedding and de-embedding applications for the PDM 1284 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.

