

Key Features

- Eight-channel HD/SD audio de-embedder (demultiplexer) with AES outputs
- Any embedded audio stream can be passed and distributed to any discrete output
- Choice of four balanced AES outputs
- Four HD-SDI/SDI outputs (one active loop-through)
- Support 48 kHz audio sample rate and 20-bit or 24-bit audio sample resolution
- Handles Dolby E
- Fiber-ready option for receiving or transmitting over fiber
- Remote control and monitoring via Ethernet frame interface

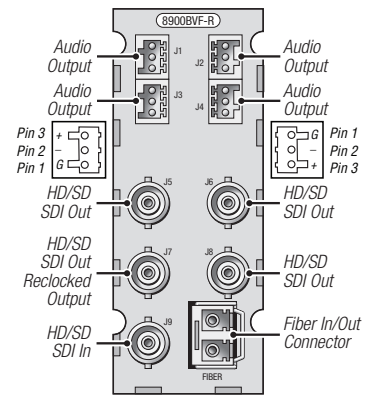
Applications

- HD-SDI audio de-embedding
- SD and HD signal handling
- Receiving HD/SD SDI from fiber and de-embedded audio

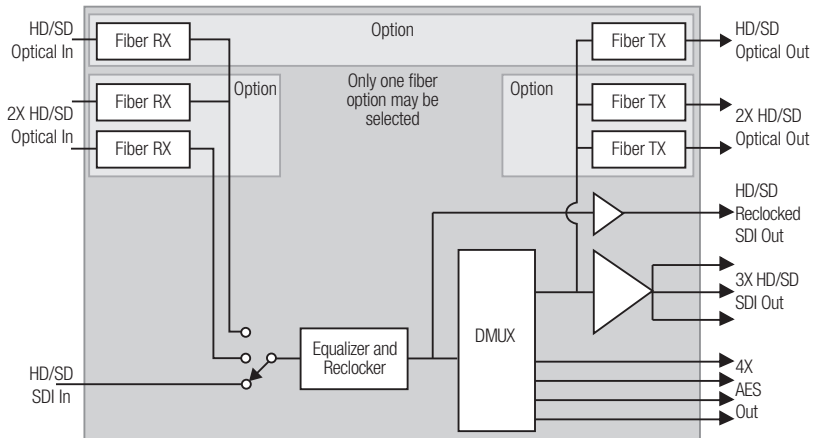
The 8925DMB-B is a compact HD/SD digital audio de-embedder (audio demultiplexer) module. It provides four balanced AES outputs and supports both PCM audio and Dolby E. This module is ideal for building dense audio/video infrastructure for production and playout applications. The 8925DMB-B provides four HD/SD-SDI outputs, one of which is a direct reclocked feed of the input. The four AES outputs are synchronous to the video. Output PCM audio sample resolution can be forced to 20 or 24 bits.

With its fiber-ready architecture, the 8925DMB-B can be configured to support up to two fiber inputs or up to two fiber outputs. Configured as a fiber transceiver it can take SDI from fiber, de-embed audio, and provide SDI output over fiber and discrete AES outputs. The dual-receiver option makes it ideal for receiving incoming feeds from longer distances with fiber input selection, and locally de-embedding audio for providing audio and SDI over copper.

FiberReady



All parameters can be adjusted via standard HTML Web browsers or via the Newton Control. In addition, NetConfig™ and NetCentral can be used for remote configuration and signal health monitoring.



Specifications

Supported Frame Types

GeckoFlex with 8900NET (Net Card) for configuration

Power Rating

7.4 Watts – single slot

Video Inputs

HD/SD-SDI:

- Input equalization: HD up to 125m, SD up to 330m
- Auto-sensing: yes

Optical: Single-mode (optional)

Formats supported: 1080i @ 59.94, 50, 720p @ 59.94, 50, 480i @ 59.94, 576i @ 50, 1080p@23.98, 1080sF @ 23.98

Audio Outputs

AES: Four outputs

- Signal type – balanced: AES-3id-1992
- Common mode range: 10 Vp-p DC 20 kHz
- Sampling rate: 48 kHz
- Resolution: 20- or 24-bit
- Output return loss: >15 dB (100 kHz to 12 MHz)
- Input impedance – balanced: 110Ω
- Connector type – balanced: mini-screw terminal block

Video Outputs

HD/SD-SDI: Four outputs

- Return loss: >15 dB, 5 to 270 MHz; >15 dB typical, to 1.5 GHz
- Signal level: SDI 800 mV/p ±10%
- Rise/fall time (20-80%): 140 ps typical for HD, 640 ps typical for SD
- Output jitter, low jitter applied: < 0.2 UI HD > 100 kHz < 1.0 UI HD 10 Hz > 100 kHz < 0.2 UI SD > 1 kHz < 0.2 UI SD 10 Hz > 1 kHz

Optical: Single-mode (optional)

Electrical length (delay)

SDI: HD input <400 ns, SD input <1.2 μs

AES (@48 kHz): HD input 410 ns, SD input 0.83 s

De-embedding

Output audio stream: Silence or any embedded pair

Output audio resolution: 20-, 24-bit, or auto as input

Ordering Information

This module can be mounted in a GeckoFlex frame but not in other 8900 series frames, including Gecko-A or Gecko-V frames. As this module has no card-edge controls, an 8900NET (Net Card) Network Interface module is required for configuration.

8925DMB-B

HD/SD de-embedder, four balanced audio inputs, front and rear module set

1310NM-TRL

Fiber transceiver. Low-power 1310 nm single-mode optical transceiver

1310NM-DTL

Dual fiber transmitter. Dual low-power 1310 nm single-mode optical transmitter

1310NM-DRL

Dual fiber receiver. Dual low-power 1310 nm single-mode optical receiver

For detailed specifications, installation, and setup instructions see:

www.grassvalley.com/docs/modular