

7847FSEDA-3G-F-2, 7847FSEDA-HD-F-2

Dual Path 3G/HD/SD Frame Synchronizers and Distribution Amplifiers

Common broadcast and other professional media applications require that a number of common processing and utility functions be performed on signals entering and being generated at various points within the facility:

- Frame Synchronization
- Audio Processing
- Distribution
- Optical/Electrical Conversion

Typically, multiple products would need to be used to perform the above functions. The 7847FSEDA is a single powerful product which supports these functions on two independent processing paths. This offers exceptional value and density while reducing interwiring, rack space and power requirements. Models are available to support common SD, HD and 3G video formats.

Frame Synchronization and Processing

The 7847FSEDA series supports frame synchronization capabilities with video proc, color correction and RGB based color legalization as standard. Audio and video delay are independently adjustable.

Audio Processing

As standard features, the 7847FSEDA series supports 16 channels of embedded audio, 5.1 to stereo down-mixing (LoRo or LtRt), global audio delay, audio channel shuffling, gain, inversion and mono-mix capabilities. Optional audio processing features include IntelliGain audio loudness control (+IG2 option) and stereo to 5.1 upmix (+UMX2 option).

Distribution

For signal distribution or connection to external elements such as patch panels, re-clocked copies of the input signals are provided on two coax outputs per path. Six coax outputs per path of the processed/synchronized input signals are also provided. Standard connectors are DIN 1.0/2.3 while HDBNC are optional.

Optical/Electrical Conversion

In addition to coaxial inputs and outputs, the 7847FSEDA also offers added I/O via Evertz pluggable SFP modules (ordered separately). Whether the card uses the SFP or coaxial inputs for either processing or distribution path is software selectable on a per path basis. On the output side, in addition to the six fully processed coaxial outputs per path, four outputs per path are available via SFP's. Optical or coaxial type SFP's may be installed (ordered separately) to facilitate alternate coaxial or optical inputs or additional coaxial or optical outputs.

Features & Benefits

- Dual path Frame Sync and Distribution Amplifier
- 14x paths of processing in 3RU
- Comprehensive DA functionality with 6x synchronized and processed coax outputs and 4x synchronized and processed SFP outputs per path
- Re-clocked, non-synchronized/processed outputs and synchronized/processed outputs may be independently sourced from the SFP or coaxial inputs (software selectable)
- Mini DIN 1.0/2.3 I/O coaxial inputs/outputs, HDBNC optional
- Fiber inputs and outputs are available when fiber SFP transmit and/or receive modules are installed
- Coaxial SFP's may also be installed in SFP ports to provide alternate coaxial inputs and/or additional synchronized/processed coaxial outputs
- Input may be sourced from coaxial or SFP sources, and through software selection may be manually forced to either input or may operate in an automatic mode based on loss of video
- Reference may be sourced from either frame reference connector, or the local reference input on the card (software selectable) with support for prioritizable auto-failover among the reference sources
- Economical SCTE104 message insertion over IP via the SCTE104 API with +SCTE104-2 option
- Support for 16 channels of embedded audio with full routing capability
- 5.1 to stereo down-mixing (LoRo or LtRt) as standard, stereo to 5.1 up-mixing optional (+UMX)



