

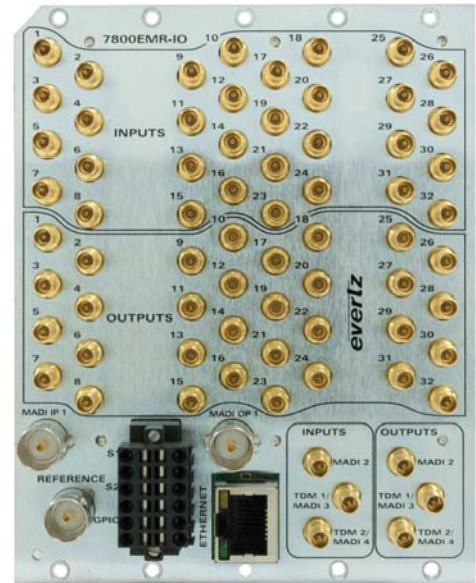
# 7800EMR-IO

## 32x32 AES & MAD I Router/Interface

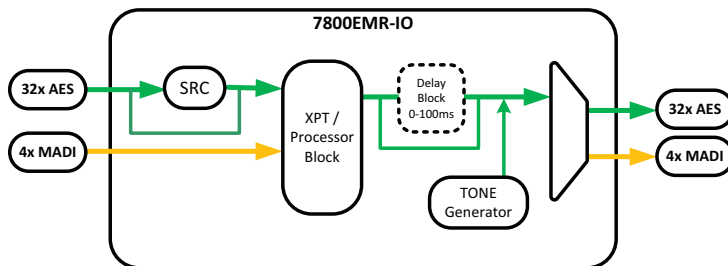
The 7800EMR-IO is a compact audio router/interface module that can be configured to operate in a number of modes depending on the application requirements. One mode as a fully functional standalone router with AES and MAD I I/O another mode will allow the module to act as a input / output interface that can be used to connect to a ADMX crosspoint for integration into a Evertz modular EMR audio router. Further details and diagrams for both of the Standalone Router Mode and the ADMX I/O mode can be found in the Features and Benefits section.

Having multiple modes allows for future growth from the stand alone router into a modular EMR-Audio system, or even can be used to expand a existing EMR-Audio router.

Each module contains 32 unbalanced AES inputs and 32 unbalanced AES outputs using DIN connectors as well as 2 MAD I Input and 2 MAD I output ports, all these are used in both modes. There is an additional 2 input and 2 additional output ports that are software programmable to be MAD I or TDM for the different modes.



### ►Features & Benefits

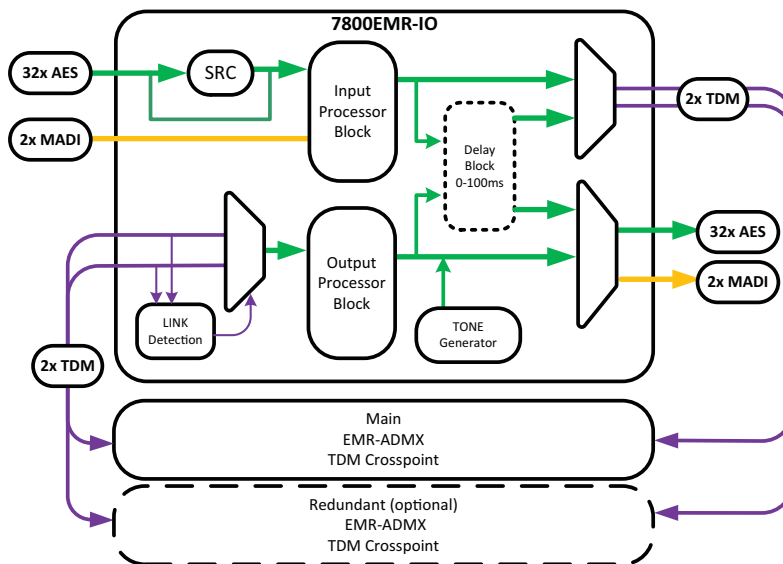


#### Standalone Router Mode

This provides a 32x32 AES router (64x64 mono) plus 4 MAD I inputs and 4 MAD I outputs, giving a total of 320 mono I/O channels

#### Key Features:

- Mono routing
- The synchronous Crosspoint only handles streams locked to the reference or the sample rate converted stream
- AES SRC conversion with auto bypass for encoded streams
- Crosspoint with processor block providing:
  - Cross fader for soft-switching PCM streams with auto bypass
  - 4:1 Mixer
  - Gain control
  - Mute
  - Phase inversion
- Delay Option
- Audio Monitoring
- Adjustable Tone Generator



#### ADMX I/O Mode

This provides a 32x32 AES that is used in conjunction with an EMR ADMX Crosspoint. It provides 32 AES input plus 2 MAD I inputs to the ADMX, and 32 AES plus 2 MAD I outputs from the ADMX, giving a total of 192 mono I/O channels.

#### Key Features:

- Dual TDM inputs with auto swap
- Dual TDM outputs for redundant ADMX connection
- AES SRC conversion with auto bypass for encoded streams
- Input processor block providing :
  - 4:1 Mixer
  - Gain control
  - Mute
  - Phase inversion
- Output processor block providing:
  - 4:1 Mixer
  - Gain control
  - Phase inversion
  - 'Click' Suppression
- Delay Option
- Audio Monitoring on AES/MAD I inputs
- Adjustable Tone Generator on output path

► Specifications

<p><b>AES</b>  Connectors: DIN1.0/2.3  Sample rates: 48kHz, 44.1kHz</p> <p><b>MADI</b>  Receiver performance: &gt;160M  Connectors: DIN1.0/2.3</p> <p><b>TDM</b>  • Supports TDM  • Receiver capable of 150M with Belden 1694A</p>	<p><b>Switching Reference</b>  Number of Inputs: 2 BNC, analog 525/625  Impedance: 75Ω terminating</p> <p><b>Control Protocol (Standalone Mode)</b>  Quartz  Synergy</p> <p><b>Electrical</b>  Voltage Auto-ranging  7800FR (-QT): 100V to 240V AC, 50/60Hz  7800FR-48VDC: 36V to 60V DC</p>	<p><b>Dimensions</b>  7800FR: 19"W x 5.25"H x 14.5"D  (483mmW x 133mmH x 368mmD)  7800FR-QT: 19"W x 5.25"H x 15.75"D  (483mmW x 133mmH x 400mmD)  7800FR-48VDC: 19"W x 5.25"H x 14.5"D  (483mmW x 133mmH x 368mmD)  7800EMR-IO: 5 Slots in a frame</p>
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► Ordering Information

<b>7800EMR-IO</b>	32x32 AES & MADI Router/Interface	<b>Enclosures</b>	
<b>Ordering Options</b>		<b>7800FR</b>	3RU Multiframe (holds up to 15 single slot modules with AC power supply)
<b>+DLY</b>	Audio Delay	<b>7800FR-QT</b>	3RU Quiet Multiframe (holds up to 15 single slot modules with AC power supply)
		<b>7800FR-48VDC</b>	3RU Multiframe (holds up to 15 single slot modules with 48V DC power supply)
		<b>7800FR-ACDC</b>	3RU Multiframe (holds up to 15 single slot modules with AC and 48V DC power supply)