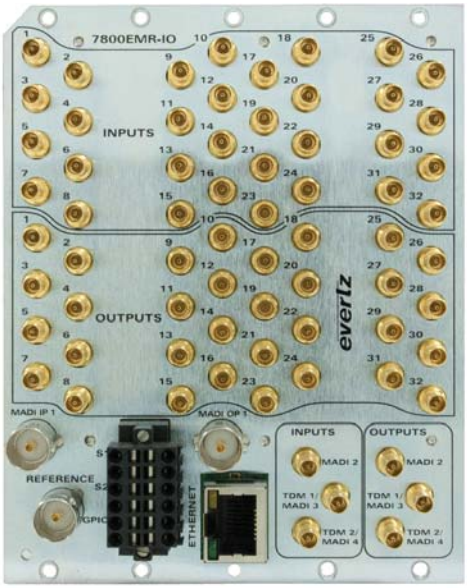
7800EMR-IO

32x32 AES & MADI Router/Interface

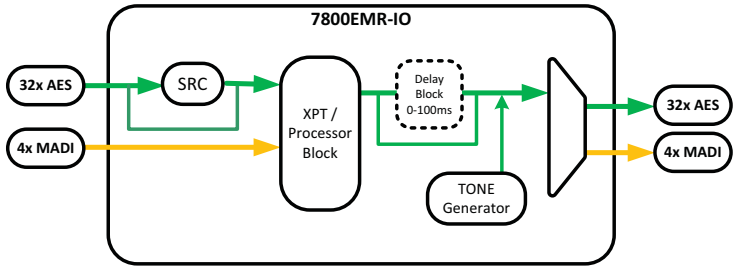
The 7800EMR-IO is a compact audio router/interface module that can be configured to operate in a number of modes depending on the application requirements. One mode as a fully functional standalone router with AES and MADI I/O another mode will allow the module to act as a input / output interface that 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 MADI Input and 2 MADI 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 MADI or TDM for the different modes.



Features & Benefits

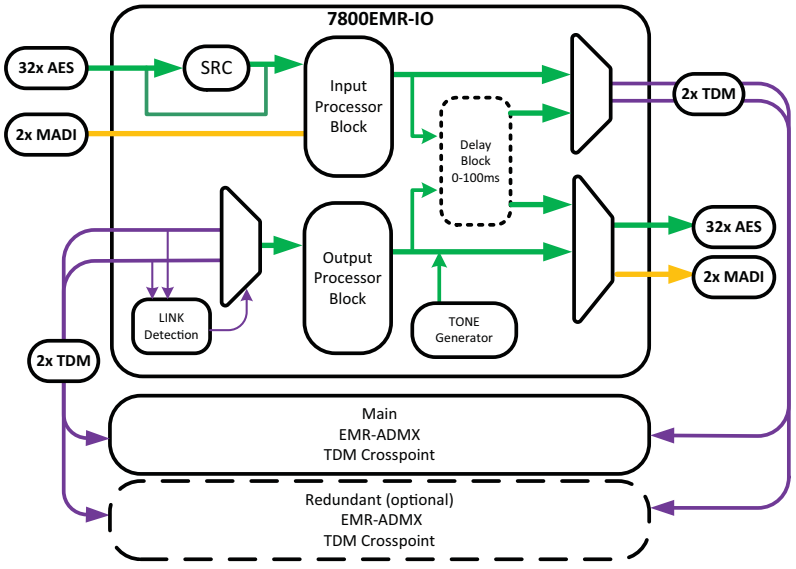


Standalone Router Mode

This provides a 32x32 AES router (64x64 mono) plus 4 MADI inputs and 4 MADI 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 MADI inputs to the ADMX, and 32 AES plus 2 MADI 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/MADI inputs
- Adjustable Tone Generator on output path

The Complete Solution Provider

7800EMR-IO

32x32 AES & MADI Router/Interface

Specifications

AES
Connectors: DIN1.0/2.3
Sample rates: 48kHz, 44.1kHz

MADI
Receiver performance: >160M
Connectors: DIN1.0/2.3

TDM
- Supports TDM
- Receiver capable of 150M with Belden 1694A

Switching Reference
Number of Inputs: 2 BNC, analog 525/625
Impedance: 75Ω terminating

Control Protocol (Stanalone Mode)
Quartz
Synergy

Electrical
Voltage Auto-ranging
7800FR (-QT): 100V to 240V AC, 50/60Hz
7800FR-48VDC: 36V to 60V DC

Dimensions
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

Ordering Information

7800EMR-IO	32x32 AES & MADI Router/Interface

Ordering Options

+DLY	Audio Delay

Enclosures

7800FR	3RU Multiframe (holds up to 15 single slot modules with AC power supply)
7800FR-QT	3RU Quiet Multiframe (holds up to 15 single slot modules with AC power supply)
7800FR-48VDC	3RU Multiframe (holds up to 15 single slot modules with 48V DC power supply)
7800FR-ACDC	3RU Multiframe (holds up to 15 single slot modules with AC and 48V DC power supply)