

---

# Evertz Integrated Audio Routing

## System Conceptual Flow

Evertz now offers a complete integrated audio routing environment. This system allows Xenon systems to grow past their 256 mono channel limit and further allows for complete freedom for moving audio to and from Embedded, Discrete AES, Analog, or MADI signals. Here's how it works:

1. Video with embedded audio (AES4, AES8, Dolby) passes into the EQX via the EQX-IP16AD-H(3G)-2TDM(-F1) board. All audio from every input is "de-embedded" and passed en masse to the TDM output connector which:
2. Connects into the 3000ADMX-16x16 TDM crosspoint. 16 MADI inputs per board can come into this core from the 3000MADI16-TDM4 converter card.
3. Discrete Audio (either AES, Analog Audio) input comes into the EMR input boards. There are 192 mono channels per AES card and 96 mono channels per Analog Audio input board. All this audio is combined and passed en masse to the TDM output connector which:
4. Connects to the 3000ADMX-16x16. It routes MONO channels of audio at the packet level.
5. Audio is passed back out via TDM to either the EQX-OP16AD-H(3G)-2TDM(-F1) or to the EMR output card.
6. The EQX-OP16AD-H-2TDM cards accept TDM input and reinsert the audio on the appropriate video channels, and then output video with embedded audio.
7. The EMR output board outputs discrete audio (either AES, Analog Audio). There are 192 mono channels per AES card and 96 mono channels per Analog audio card.
8. The 3000TDM4-MADI16 also connects to the ADMX16x16 to output 16 MADI outputs per card
9. TDM connections can be provided from the ADMX-16x16 to the 7800IP-TDM card which allows simple gigabit Ethernet connection of remote EMR and EQX AE/AD cards to the system over existing Gigabit LANs.



EVERTZ MICROSYSTEMS, LTD.	
5288 JOHN LUCAS, BURLINGTON, ONTARIO, L7L 5Z9	
MAIN: 905-335-3700	FAX: 905-335-3573
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND MAY NOT BE DISCLOSED TO OTHERS BEYOND THOSE INTENDED BY EVERTZ MICROSYSTEMS LTD. FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION FROM EVERTZ MICROSYSTEMS LTD.	
PROJECT: Evertz Integrated Audio Routing	
TITLE: Audio Flow	
PAGE: 1	DATE CREATED: 031108
REVISION: 6	LAST UPDATE: 020310
DRAWN: CLA	DRAWING NO.
SCALE: NONE	EIAR006

