

MADI - IP ST2110-30 by Embrionix

Embrionix's MADI - IP Bi-directional Gateway can convert a one MADI signal into IP streams while also offering the receive of IP streams for conversion into a single MADI signal.

The SFP+ form-factor product is designed to be installed directly inside an IP switch or as a standalone miniature converter that can be installed near your equipment. The device connects MADI signal via 1310nm multimode fiber and IP at the host connector. The bi-directional solution uses ST2110-30 encapsulation standard and allows each audio channels to be mapped into up to 8 flows.

Features:

- ✓ Choice of SFP+ base platform with MSA pinout can be installed directly inside an IP switch and Standalone miniature frame
- ✓ ST2110-30/31 encapsulation
- ✓ 64 MADI (AES-10) audio Bi-directional
- ✓ Built-in Audio Frame Rate Converter
- ✓ Support of ST2022-7
- ✓ Audio shuffling and breakaway functionality
- ✓ Support of LLDP (network physical location)
- ✓ In-band control with support of NMOS, EMBER+ and RESTful API
- ✓ Free emSET configuration and monitoring software tool

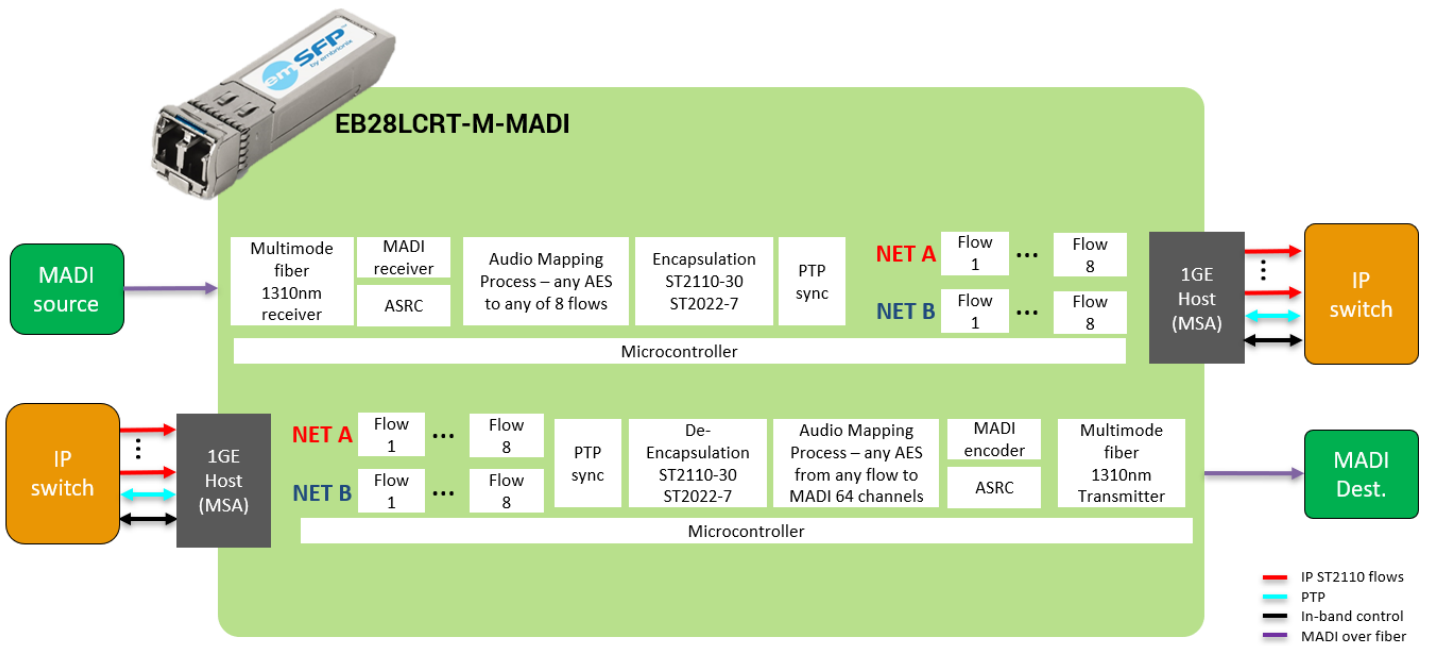
Description

The **EB28LCRT-M-MADI** is an optical transceiver multimode 1310nm designed to transmit and receive one MADI signal over multimode fiber as defined in AES10. The EB28LCRT-M-MADI contains one high sensitivity receiver and one high power transmitter.

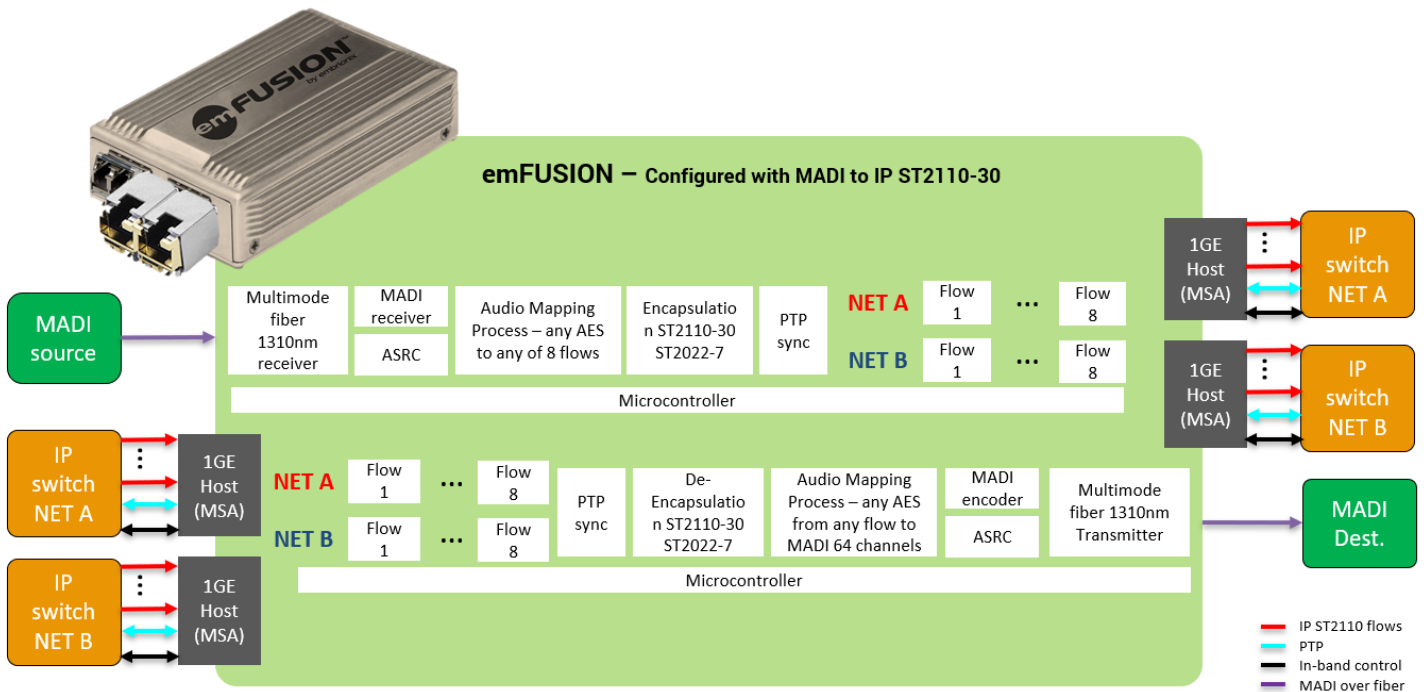
The **emFUSION** – *configured as a MADI to IP ST2110-30* operates as a signal routing device allowing flows from network interface A and B to be received at the **EB28LCRT-M-MADI** host which is used for the MADI – IP conversion. The emFUSION can be powered with redundant external power supplies or installed into the two rack units **emBOX-MBR-18** bracket that houses up 18 emFUSION while being required with redundant power supplies.

Both solutions provide ability to receive and send flows as per ST2022-7 redundancy specification. It includes full capability of remapping the audio channel alignment when converting from MADI to 8 IP flows while also offering conversion from eight IP flows to a 64 channel MADI format. PTP assure referencing of audio channels in in the receiving and transmission process. Each audio can be received at 48Khz, 96Khz, synchronous or asynchronous due to the built-in audio frame rate converter.

Platform: **EB28LCRT-M-MADI**



Platform: **emFUSION** - configured as a MADI to IP ST2110-30





Specification

EB28LCRT-M-MADI

Frame	SFP+
Dimensions:	58.5mm x 13.4mm x 8.6mm SFP Package
Operating temperature:	-20 to 65C
Power consumption:	2w
SFP	
Host Pinout:	MSA (IP signals)
Connector type:	LC
Fiber:	1310 Multimode
Optical power:	Min -6dBm, typ -2.5dBm
Extension ratio:	7db to 17dB

emFUSION - configured as a MADI to IP ST2110-30

Frame	emBOX-3
Dimensions:	26mm H x 45mm W x 75mm D
Operating temperature:	-10 to 45C
Power consumption:	5w
Power supply:	Dual inputs 12V (diode)
SFP	
Host Pinout:	MSA (IP signals)
Connector type:	LC
Fiber:	1310 Multimode
Optical power:	Min -6dBm, type -2.5dBm
Extension ratio:	7db to 17dB
Network interfaces	
SFP Type:	2x RG45
Rate:	1GE

For more information, please contact sales@embrionix.com

Embrionix™ logo is among the trademarks of Embrionix Design Inc. Any other trademarks or trade names mentioned are the property of their respective owners. Specifications are subject to change without notice.