

# MADIX™ MADI (AES-10) Network Interface Module Product Bulletin



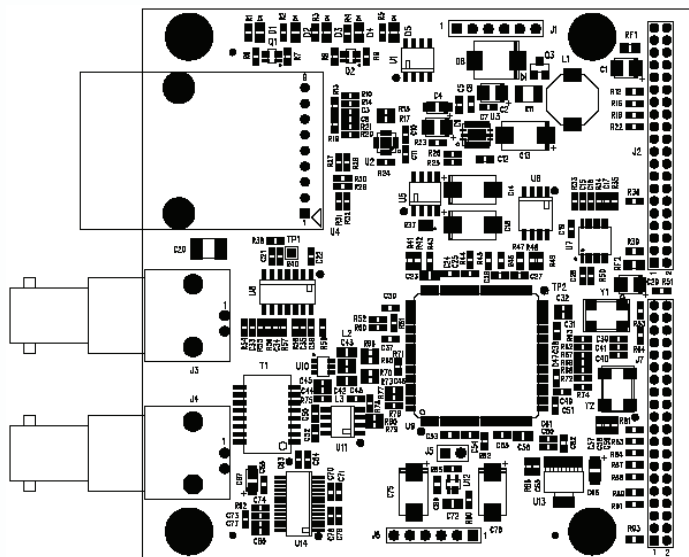
## General Description

The MADIX™ Network Interface Module offers up to 64 input channels and 64 output channels from MADI (AES-10) via Coaxial and Optical connections.

The MADIX™ operates either as master or slave, providing a stable audio clock when serving as a master, and directly recovers a low-jitter audio clock from the MADI bitstream in slave mode. No external word clock is required for slave operation, and word clock synchronization is supported in master mode for maximum flexibility. Coax and Optical media may be used together in a redundant configuration, with automatic fail-over if one of the links becomes compromised.

The MADIX™ is another offering in the ever growing Lab X family of mechanically and electrically compatible MIX digital audio network modules.

Based on a Xilinx Spartan 3E® FPGA, Lab X can customize the audio interface to seamlessly integrate to manufacturers' digital backplanes regardless of the data format. Lab X's engineering services can also turnkey "carrier boards" to facilitate the incorporation of this and other MIX modules.



## Physical Specifications

The MADIX™ module is 3.5" x 3.5" with four mounting holes. Chassis mounting is available via an optional mounting bracket. Features both Coaxial and Optical connections. Configurations are available with two 2mm 40 pin connectors mounted either on the top (component side) or on the bottom to maximize the flexibility in space-limited applications.

## About Lab X Technologies

Lab X Technologies is the Rochester, NY based engineering design firm recognized as the leader in connectivity solutions for the professional audio industry.

Founded in 1996, Lab X has worked with top audio manufacturers to develop leading-edge products that embrace the universal need for connectivity and interoperability.

In addition to MADI, Lab X also has extensive experience with A-Net®, CobraNet, Dante™, EtherSound™, and other audio networking standards.

Lab X Technologies serve its clients in a variety of ways; including augmenting internal design teams, providing pre-engineered connectivity modules, developing innovative product concepts, and producing complete turnkey custom solutions.

## About MADI

The Multichannel Audio Digital Interface (MADI) was defined by the Audio Engineering Society (AES-10) to serve as the professional audio industry standard for multi-channel digital audio. MADI provides transmission of up to 64 channels of 24-bit 48 kHz audio via a single coaxial or optical cable. Coaxial transmission lines can be up to 100 meters in length, while optical lines can provide error-free transmission up to 2000 meters.

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