

# IQAMD40

## Multichannel MADI to IP Interfacing Module

Flexible, cost-effective multichannel integration of MADI devices into Ethernet IP networks.

The IQAMD40 from Grass Valley provides multichannel MADI to IP interfacing, and has been developed to allow high-density audio integration into Ethernet IP networks. Using industry-standard AES67 encapsulation and a 10 GbE interface enables the IQAMD40 to interface directly with many common audio desks and systems.

IQAMD40 also allows configuration of audio channels for IP streams, and provides stream compatibility by offering packet time adjustment. Two audio tone generators are also available to enable link testing and configuration.

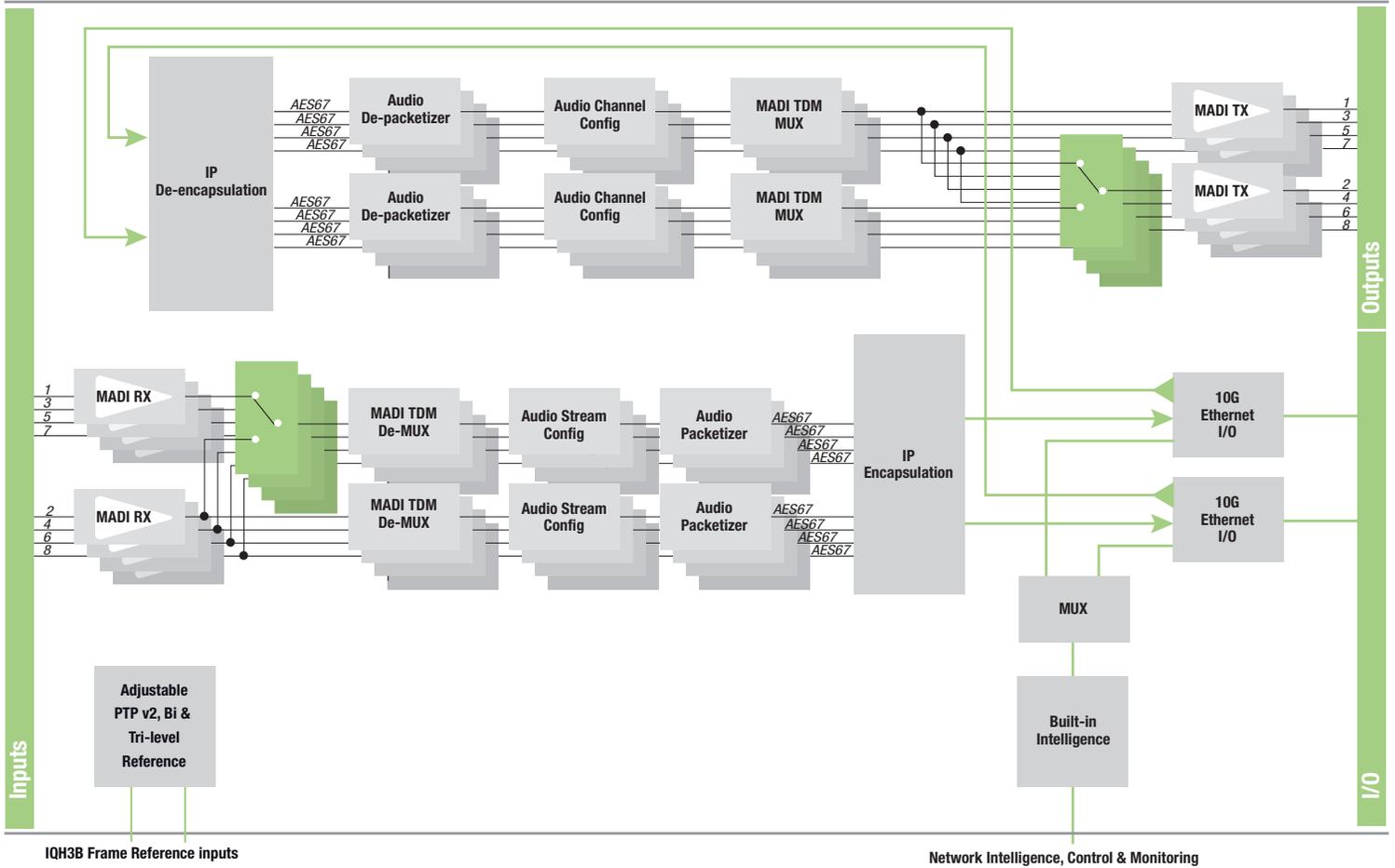
IQAMD40 fully integrates with remote control and monitoring systems to provide easy setup and real-time information on signal presence and status for each channel. It's also fully compatible with Grass Valley's broadcast-centric IP routing and network management solution designed to migrate broadcasters from a traditional baseband routing and control environment to new hybrid SDI and IP workflows.

### Why should you choose this module?

- Provides a flexible and cost-effective way to integrate MADI audio devices into Ethernet IP networks for efficient signal transport
- Using IGMPv3 source-specific multicast allows fast configuration of network routes and provides the basis for clean switching at the destination unit
- Full GV Orbit compatibility provides an all-inclusive remote configuration, control and monitoring solution
- Comprehensive SNMP support allows easy integration with third-party Network Management Systems

### KEY FEATURES

- Handles up to 16 MADI signals (8 in & 8 out) over dual 10 GbE IP links, with the option to provide MADI link redundancy
- Audio delay per IP stream of up to 255 ms
- Dual SFP/QSFP to provide link redundancy
- Uncompressed PCM audio transport using AES67
- Timing and synchronization provided by IEEE-1588v2 (PTP), compliant with SMPTE ST 2059-2 and AES67 profiles
- Supports unicast as well as IGMPv3 source-specific multicast, allowing point-to-point operation or transmission in multicast groups
- Two audio tone generators available for MADI channels, with selectable tone frequencies of 500 Hz, 1 kHz, 2 kHz and 4 kHz
- Standards supported:
  - MADI to AES10-2003
  - 10G Ethernet to IEEE 802.3
- Audio channel selection per IP stream from 1-64 channels, plus packet time selection of 125  $\mu$ s, 250  $\mu$ s, 500  $\mu$ s, 1 ms and 4 ms
- GV Orbit control and monitoring compatible

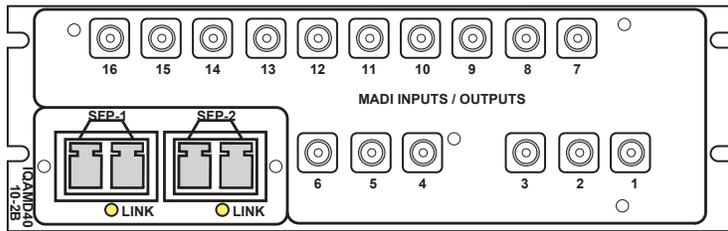


Block Diagram for IQAMD40

**ORDERING**

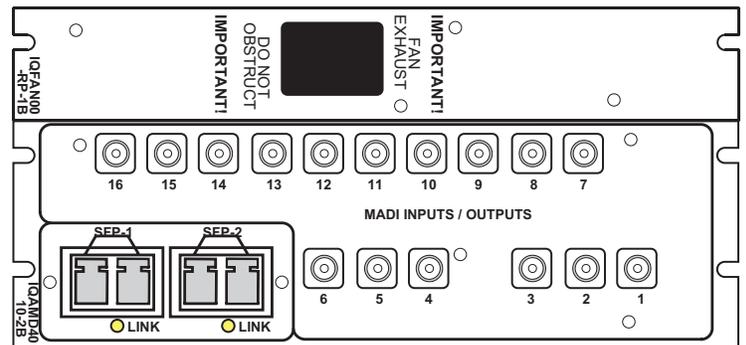
**IQAMD4010-2B3**

Translates MADI streams to IP with 10 GbE interface. For use in IQH4B frames. Up to 8 (2x 4 redundant) MADI inputs or outputs, 2x 10 GbE SFP ports.



**IQAMD4011-3B3**

Translates MADI streams to IP with 10 GbE interface. Up to 8 (2x 4 redundant) MADI inputs or outputs, 2x 10 GbE SFP ports. Note: includes IQFAN00-RP for additional cooling in IQH3B frame.



For more details on enclosure types please refer to the IQ Modular Enclosures datasheet.



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