

MADI-2 User Guide 010723js

LEDs – **Solid green** indicates which MADI input is active, locked and in sync when not using external Clock.

Flashing green – In the process of syncing and locking to MADI input when not using external Clock.

Solid yellow – indicates which MADI input is active, locked and in sync when using external Clock.

Alternating yellow/green – In the process of syncing and locking to external Clock.

Flashing Yellow – Indicates external clock is connected but no MADI input.

Clock – Uses word clock for external synchronization. The system can run at sample rates up to 192kHz when using an external clock.

MADI XMT (Transmit) and RCV (Receive) – Multi-mode optical fiber with an SC-Plug (IEC 874-19) or 75 ohm coax with a BNC connector.

Clocking and Sample Rate – the MADI-2 board defaults to 48kHz when there is no MADI input connected. It will follow the clock of the incoming MADI stream at 44.1, 48, 88.2 and 96kHz. If the external Clock input is used, it has priority.

MADI channel counts are reduced by half when running at 96kHz sample rates and one quarter at 192kHz. Be sure to take this into account when planning your system capacity.

MADI XMT (Transmit) Out and RCV (Receive) In – Multi-mode optical fiber with an SC-Plug (IEC 874-19) or 75 ohm coax with a BNC connector.

The optical connectors are under the removable black protective cover. Outputs (XMT, Transmit) are on the left, inputs (RCV, Receive) on the right.

Optical and coax XMT (Transmit) and RCV (Receive) can be connected simultaneously. The system will automatically switch between whichever RCV (Receive) input is actively carrying data. XMT (Transmit) outputs are always active

MADI Throughput Delay – Latency is three samples per MADI card at 48kHz, 6 samples at 96kHz and 12 samples at 192kHz (the amount of time is the same for all).

A 64 channel system would have 21 samples between channel 1 and 64. Take this into account when using stereo mics. Keep them in the same preamp if possible.

MADI Ch 1-8 is the unit with its transmitter (output) closest to the mixer. 9-16 would be the next etc.

