

WARRANTY

All fiber optic transmission systems, products and accessories manufactured by Liteway, Inc. and its subsidiaries are fully tested prior to shipment and are warranted against defective materials and workmanship for a period of five full years from the date of the original shipment. Should a problem occur, a Return Material Authorization Number (RMA) must be obtained from Liteway Inc. at (516) 931-2800 and the item returned to Liteway, Inc. 166 Haverford Road, Hicksville, NY 11801, USA, prepaid. Liteway Inc. will then, at its option repair or replace the defective item.

Liteway, Inc. maximum liability under this warranty is limited to the cost of the defective item only. No contingent liabilities of any kind are either assumed or implied.

Any items returned to Liteway, Inc. that have been misused, abused, damaged, modified, connected or adjusted in any way contrary to the instructions furnished by Liteway, Inc. or repaired by unauthorized personnel will not be covered by this warranty. Any non-warranty repairs required will be quoted at the current rate for such services.



Important Notices



CAUTION! AVOID DIRECT EXPOSURE TO BEAM.

All -7,-8, and -9 Models use laser diodes. These solid-state laser diodes are located in the optical ports of these units. Laser diodes produce invisible radiation that may be harmful to human eyes. Never look directly into the optical port of any fiber optic unit designed to operate with single-mode optical fiber.

NOT FOR LIFE SUPPORT SYSTEMS

Liteway, Inc. does not authorize or warrant any of its products or accessories for use in critical life support systems or applications of any kind.

OPERATING INSTRUCTIONS

MidiExtender® Bi-Directional Fiber Optic MIDI Extender

Model MIDI-2001

The **MidiExtender** MIDI-2001 system consists of the two MIDI-2001 transceivers. This system will transmit all standard MIDI 1.0 data signals over beyond the specified 50 foot (15 meter) limit without signal loss or interference.



Technical Specifications

Bandwidth	DC – 1.0 Mb/s (Includes 31.25 Kbaud)
Protocol supported	MIDI 1.0 (all formats)
Rise / Fall Time	Less than 100 nanoseconds
Bit-error Rate	1 x 10 ⁻⁹ (worse case)
Signal Connectors	5 pin 180° DIN
Input Isolation	Optical Isolation 10 KV/us
Output Drive	25mA maximum (5 times MIDI 1.0)
Operating Wavelength	850 (-1), 1300 (-3,-7), 1550 (-9)
Optical Loss Budget	0 – 10 dB
Optical Connectors	Multimode (-1, -3) ST/PC, Single-mode (-7,-9) FC/PC
Temperature Range	-35° to +75°C
Power Requirements	11-24 VAC/DC @160 mA
Physical Size (mm)	5.0"(127)L x 1.0" (25.4)W x 3.0"(7)D

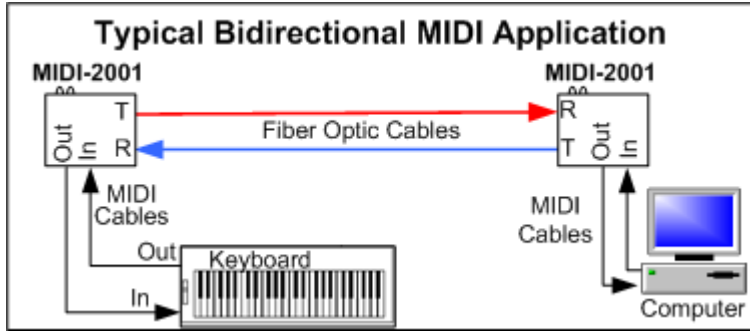
All specifications measured with 1Km of 62.5u multimode fiber. All specifications are subject to change without prior notice.

Liteway®
Fiber Optic Transmission Systems

www.Liteway.com
USA 516-931-2800

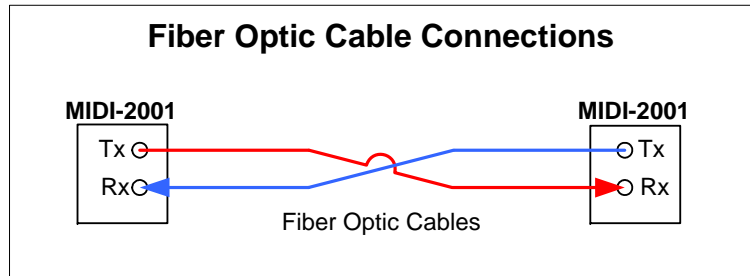
Installation Instructions

The block diagram below shows the MIDI- 2001 in a typical application.



Fiber Connections;

You must connect the Fiber Tx port of one unit to the Fiber Rx port of the other unit with the appropriate size fiber optic cable. Multimode models, (-1,-3) require 62.5/125u multimode fiber. Single mode models (-7,-9) require 9/125u single mode fiber.



MIDI Connections;

The MIDI IN connector on the MIDI-2001 unit should be connected to the standard MIDI signal that is to be transmitted over the fiber optic cable. (the MIDI out of your device)

The MIDI OUT connector on the MIDI-2001 unit should be connected to the standard MIDI signal that is to be received over the fiber optic cable. (the MIDI IN of your device)

Power Connections;

You must power each MIDI-2001. You can use the PS-1205 wall transformer or any 12-24 Volt source.

Terminal Block Pins;

Pin	Function
1	Alarm output for use with optional Alarm Sensing Unit ALM-1000. No other connections should be made to this terminal.
2	+11 to 24 DC or AC Volts input
3	AC or DC return (Common to Housing)

Indicator Lights

Indicator	Lights when
Pwr	Proper power is present.
Alm	There is no valid fiber optic connection between the units.
Rx	A MIDI data signal is being received from the fiber optic cable. At low data rates this indicator may blink with data.
Tx	A MIDI data signal is being transmitted on to the fiber optic cable. At low data rates this indicator may blink with data.
Link	A valid fiber optic connection exists between the two MIDI units connected together. If the Link light is not on MIDI data will not be transmitted