

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

LuxLink® Fiber Optic DMX-512-RDM Transmission System

Model DMX-7101



The **LuxLink®** DMX-7101 is designed to transmit, receive and repeat the DMX-512-RDM protocol (ANSI E1.11-2008) signals at data rates from DC to 1Mb/s on optical fiber. The unit may be used for point-to-point or in drop and repeat applications up to 3 miles.

Technical Specifications

Data Rate	DC-1 Mb/s
Operating Modes	Simplex or Drop and Repeat
Interface/Protocol	RDM protocol (per ANSI E1.11-2008)
Optical Wavelength (nm)	850 (-1), 1300 (-3,-7), 1550 (-9)
Fiber Compatibility	-1, -3 multimode, -7 single-mode (Duplex)
Optical Connectors	-1, -3 ST, -7, FCPC
Signal Connectors	Standard 5 position XLR (male/female)
Transmission Range *	0 to 16,000 feet (5 km)
Number of Repeaters**	10 maximum
Temperature Range	-35° to +75°C
Power Requirements	11-24 VDC @ 250 mA
Physical Size (mm)	5.0"(127)L x e.0" (76)W x 2.23"(56.6)D

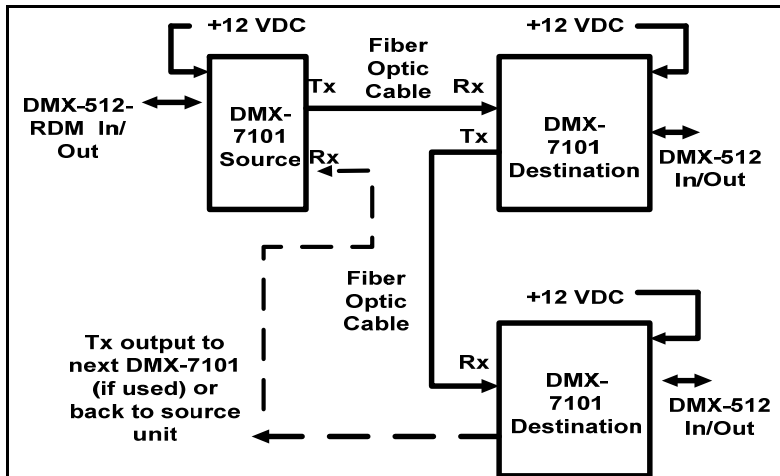
* unit to unit

** Since the signal is reconstituted at each DMX-7101 transceiver the distance between units can be as long as 5 km.

All specifications are subject to change without prior notice.

Installation Instructions

The diagram below shows the fiber optic and signal connections for the DMX-7101. For proper operation, the fiber optic cables must always be connected as exactly as shown. Note that as many 10 DMX-7101 units can be connected in a single run.



Signal Connector (5 Position Standard XLR)

The DMX-512-RDM input and/or output functions are both located on the Signal XLR connector. The signal connector on the DMX-7101 is a standard 5 position female XLR connector. When the unit is being used as a source or a distribution unit the appropriate male to male or male to female XLR cable adapter should be used as required.

Pin	Signal XLR Connections
1	Positive in/out Data signal on Source
2	Negative in/out Data signal on Source
3	Data Common (also connected to the housing)
4	Positive in/out Data signal on Destination
5	Negative in/out Data signal on Destination

Fiber Optic Connector

The fiber optic Tx optical output connector from one DMX-7101 unit is connected to the Rx optical input on the next DMX-7101 unit and the last destination unit Tx output is connected back to the source Rx input.

Power Terminal Block Connections

Pin	Function
1	Alarm Output for use with optional ALM-1000
2	10 to 24 VDC (250 mA max)
3	DC return common (also connected to the housing)

Pin 1 is used to enable an optional **LuxLink** ALM-1000 which will provide a visible and audible indication as well as an external set of contact closures that can be used in the event of a loss of signal or invalid optical link.

Indicator Lights

Indicator	Lights when
Pwr	Proper power is present.
Tx	DMX-512-RDM Data is being Transmitted
Rx	DMX-512-RDM Data is being Received
Link	A valid optical link and data is present
Alm	A valid optical link is not present

Note that the Rx LED will light on the DMX-7101 indicating the presence of a received optical DMX signal. The Tx LED will light indicating the transmission of a DMX signal. Both the Tx and Rx LEDs will both light when DMX signals are being received and retransmitted.

The LINK LED indicator will light on the DMX-7101 when the internal circuitry is operating properly and transmit and/or receive data is present.

The Alarm LED will light when there is no DMX signal, the unit is not operating properly or when there is no valid optical link.

Be certain to check all connections and voltages before applying operating power.


www.LuxLink.com
USA 516-931-2800

Fiber Optic Transmission Systems