

# Bidirectional Fiber Optic Link

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## Features:

- Transmits 16 independent Channels
- Single Fiber Transceivers
- 0 to 25 Mb/s Bandwidth
- 1310nm for Links to 10km
- Digital LVTTTL, CMOS/TTL Input
- Outputs are LVTTTL (0-3.3V)
- AC/DC Operation



The LTX-7225 Bidirectional Fiber Optic Link multiplexes up to 16 independent channels of digital TTL/CMOS/LVTTTL information to over 10 kilometers with a Singlemode fiber. The LTX-722X samples each of the channels at 100 million times a second, The signals are then multiplexed and transmitted serially over a single optical fiber at 2 gigabits per second. The far end of the fiber link demultiplexes the signal back into independent outputs. Each of these channels maybe be toggled at rates up to 50 Mb/s.

Pair a  
LTX-7225 with a LTX-7215  
to configure remote  
high speed, 12 bit  
A/D and D/A converter links

Using the LTX-721X in conjunction with a LTX-722X unit, results in a remote fiber-coupled 12-bit data acquisition system, digitizing the signal at up to 50 Mb/s and reconstructs the signal by means of a fast D/A converter. The units may also be employed in the reverse direction if desired.

Applications include data acquisition for plasma physics experiments, signal transmission and control of equipment at high voltage potentials, operations through Faraday shields, and precise noise -free signal transmission in hostile EMI environments.



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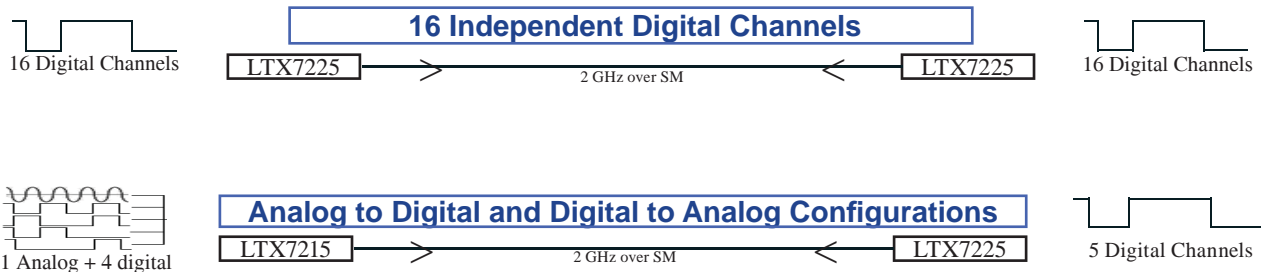


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# LTX-7225 Specifications

Number of Digital Channels	16
Digital Inputs	TTL, LVTTTL, CMOS compatible
Digital Outputs	LVTTTL (0 - 3.3 V)
Signal Latency (with one meter of fiber)	Approximately 300 ns
Digital switching Rates	0 - 50 MHz
Digital Signal Edge Uncertainty	0 - 10 ns
Laser Wavelength	1310 nm +/- 20 nm
Optical Transmission Rate	2.0 Gb/S
Loss Budget	7 dB
Laser Safety Classification	Class I safety per FDA/CDRH and IEC-825-1 regulations
Typical Transmission Distances	10 KM with 9/125 micron fiber
Fiber Optic Connectors	ST standard, FC available upon request
Analog Connector	BNC
Digital Connector	HDMI (Cable and Breakout Board Supplied)
LED Annunciators Provided	Input Overload, Optical Signal and Power
Power Supplies	Wall Mount, Universal, US, UK, Continental Europe and Australian plugs included
Power Requirements	95 - 260 VAC, 50 - 60 Hz, 16 VA Max.
Batteries/hrs of Operation	6 AA NiMH / 3 hrs
Operating Temperature Range	0 - 40 C
Transmitter Dimensions ( mm )	214 L x 114 W x 59 H
Weight (each)	0.578 Kg
Standard Warranty	Two Years, Components and Workmanship, 30 day Satisfaction Guarantee

Specifications subject to change without notice



## Ordering Information

LTX-7225-1310	Singlemode, 2.0 Gb/s 16 Channel Digital Signal Transporter
LTX-7225-1310-BAT	Singlemode, 2.0 Gb/s 16 Channel Digital Signal Transporter with Battery Pack



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