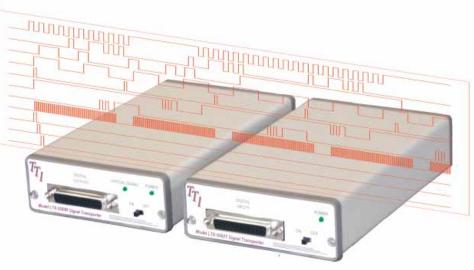


## LTX-5525 "Signal Transporter" E/O - O/E Converter pair



## **Benefits**

- Transmits 16 independent TTL signals over a single fiber
- Each channel may be toggled from 0 50 MHz
- Inputs accepts LVTTL and/or CMOS/TTL
- Outputs are LVTTL (0 3.3 V)
- 850 nm version for multimode links up to 300 M
- 1310 nm version for SM links up to 10 KM

The LTX-5525 conveys sixteen independent channels of digital information over a fiber optic link ranging from meters to more than 10 kilometers.

Each of the 16 incoming TTL channels is sampled 100 million times per second, multiplexed and transmitted serially over an optical fiber at two gigabits per second. The receiver acquires this digital data and de-multiplexes it to 16 separate output ports. Each of these channels may be toggled at rates ranging from 0 - 50 MHz.

Two models are available. Selection depends on the fiber type and the length of the fiber optic link that is required. The LTX-5525-850 transmits at 850 nM over multimode fiber optic links of up to 300 meters in length, while the LTX-5525-1310 transmits at 1310 nm over single-mode fiber to span distances exceeding 10 kilometers.

The new LTX-5525 doubles the data capacity of our previous word-width digital fiber optic links. Paired with elements of our high-speed analog links, the LTX-5525 allows the user to configure remote precision A/D or D/A converters. This eliminates the need for the user to digitize analog signals at the receiving end of the analog data link.

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

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	Sixteen TTL, LVTTL, CMOS compatible LVTTL, [ 0 - 3.3 V]
	•
	LVTTL, ( O - 3.3 V)
	≈ 300 ns
	100 million samples per second
	0 - 50 MHz
	± 5 ns
Ľ	TX-5525-850: 850 nm ± 20 nm, LTX-5525-1310: 1310 nm ± 20 nm
	2.0 Gigabit per second
	0 - 15 dB
	Class I safety per FDA/CDRH and IEC-825-1 regulations
	300 m with 50/125 fiber, 175 m with 62.5/125 fiber
	10 Km with 9/125 SM fiber
	ST Type standard, FC available on request
	DB25 on input and output
	Optical Signal - ON (receiver)
Wall M	ount, Universal, US, UK. Continental Europe, and Australian Plugs Included
	95-260 VAC, 50-60 Hz, 16 VA Max
	0 - 40 C
	175 L x 104 5 x 40 H
	175 L x 104 5 x 40 H
	0.46 Kg
Τv	vo years, Components and Workmanship, 30 Day Satisfaction Guarantee
	Wall M

 $\ensuremath{\mathsf{TTI}}$  reserves the right to change specifications without notice

We welcome the challenge of custom applications. Call, fax, or e-mail us with your requirements.



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