

# Fiber Optic Multiplexer Modules

## TEL Series

### 10 / 100 Ethernet Media Converters

#### Description

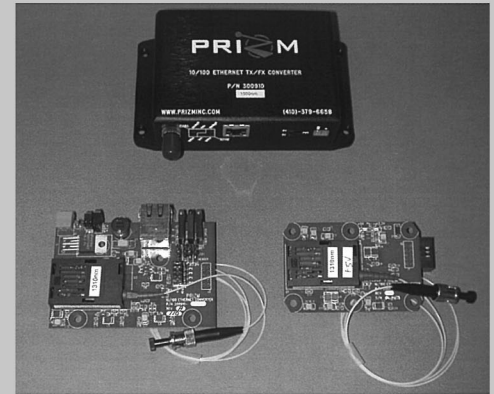
The Prizm™ TEL Series of Ethernet Media Converter provides an elegant solution for converting standard twisted pair media to fiber optic media.

#### Features

- Fully transparent Ethernet link
- 10 / 100 Mbps auto configuring
- IEEE 802.3 compliant
- Designed for operation in harsh environments (-20° to +65° Celsius)
- Low cost multimode links (< 1 km)
- Custom configuration available

#### Benefits

- The lightweight and compact media converter is the smallest on the market
- The Prizm system auto-configures to interface with either 10Base-T or 100Base-TX via twisted pair or RJ45 jack
- The Prizm TEL series is available as an OEM board solution or a stand alone product in it's own packages solution



#### Typical Applications

- Terrestrial Robotics

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COMPONENTS GROUP

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## Specifications

Optical		
Data Rate	10 / 100 Mbps	
Optical Wavelength	1310 nm / 1550 nm	
Optical Mode	Singlemode or multimode Single or dual fiber systems	
Distance	Singlemode up to 100 km Multimode up to 2km** Up to 4 km with singlemode optics	
Optical Connection	ST or SC	
Electrical Connection	RJ45 or 10-pin header	
Power Supply	5 VDC @ 750 mA max	
Operating Temperature	-20° to +65° Celsius	
Storage Temperature	-40° to 85° Celsius	
Relative Humidity	Up to 90% non-condensing	
Ordering Information		
OEM Board Level Solutions		Packaged Solutions
P / N 200750-ABCD	P / N 200910-ABCD	P / N 300910-ABCD
A 1: 5 VDC	A 2: 12 VDC 3: 24 VDC	A 1: 5 VDC 2: 12 VDC 3: 24 VDC
B 1: 1310 nm (note 1)	B 1: 1310 nm (note 1) 2: 1550 nm	B 1: 1310 nm (note 1) 2: 1550 nm
C 1: SM single fiber 2: 1550 nm 3: MM dual fiber	C 1: SM single fiber 2: SM dual fiber (note 2) 3: MM dual fiber	C 1: SM single fiber 2: MM dual fiber (note 1)
D 1: ST connector 2: SC connector	D 1: ST connector 2: SC connector	D 1: ST connector 2: SC connector
<p><b>Note 1:</b> In a single fiber system, a link must consist of both a 1310 nm unit and a 1550 nm unit to create a complete system.</p> <p><b>Note 2:</b> Singlemode, dual fiber systems can also operate over multimode fiber optic cable up to 4 km. A multimode WDM can also be added for single multimode fiber applications.</p>		
Mechanical		
5 VDC OEM Board	(200750-1XX): 2" x 3" x 0.7"	
12 VDC OEM Board	(200910-2XX): 2.6" x 3.5" x 0.9"	
Packaged Solutions	(300910-XXX): 3.2" x 4.3" x 1.5" (plus flanges)	
** Exact mechanical interface drawings are available upon request		

24 / 7 Technical Customer Support  
Hotline: 610-605-6101