

FOI-7280 / TD-7280

LINE LEVEL STEREO AUDIO TRANSCIVER WITH SERIAL DATA AND CONTROLS



Overview

Elegantly simple yet packed with an advanced feature set, the FiberPlex Technologies, FOI(TD)-7280 is a powerful problem solver when it comes to routing audio. The unit converts line level, stereo analog audio to fiber for long or short haul transport. In addition to the audio, a multi-format serial data connection and a bidirectional pair of contact closures are included.



What's the difference between the FOI and the TD versions?

Functionally, the FOI-7280 and TD-7280 are identical. The only differences are the packaging and power supply. The FOI-7280 is part of the FOI line of products designed for ruggedized military applications while the TD-7280 is housed in the commercial 'Throw Down' packaging.

	FOI-7280	TD-7280
Standalone Power	Requires a PSQ-4909 AC supply or PSQ-4920 DC supply	Power Supply included
Power Connection	High Reliability Lemo™ connector	Both circular DC connector and 3-position Phoenix™ quick connect
Chassis Mounting	Uses the RMC series chassis for up to 9 units in 2U or 8 units with redundant power supply	6 units in a 1U with the optional TDR-01-AC
Case	Mil-style sealed steel can enclosure	Durable anodized brushed aluminum

Routing

Various advanced routing and networking options are available via DIP switch setting. These include the following:

Features:

Audio Interface:

- Supports Balanced and Unbalanced Audio I/O
- High Quality 24-bit audio
- Ultra Wide 20 Hz to 45 kHz Frequency Response
- Supports Ultrasonic Signaling

Serial Interface:

- RS-232, RS-422, RS-485 (2/4 wire)
- Data Rates from 0 to 1 Mbps

Contact Closures:

- 'Form C' Contacts
- Supports Push to Talk

Advanced Routing:

- Point to Point
- Broadcast Mode
- Intercom/Loop
- Multichannel Add/Drop

Power:

- TD includes power adapter as well as a 3-position Phoenix™

Applications:

- Audio Tie Lines
- Audio Distribution
- Push To Talk
- Intercom
- Railway Signaling
- E&M

Point to point mode

Basic configuration. Audio inputs one unit map directly to audio outputs on the other unit. Serial data and contact closures are a direct connection.



Broadcast Mode

One unit is configured as the master, which sets the clock and sampling rate. Analog and serial inputs to the master are sent to all the slaves, which output the data on their respective ports. No communication is sent from the slaves to any other units.

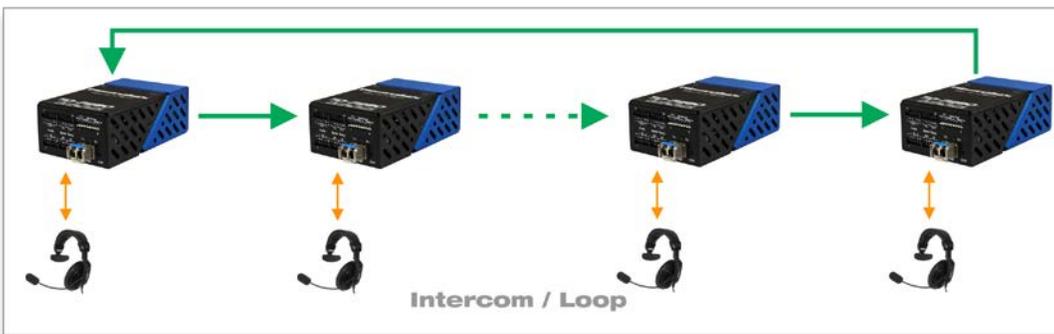
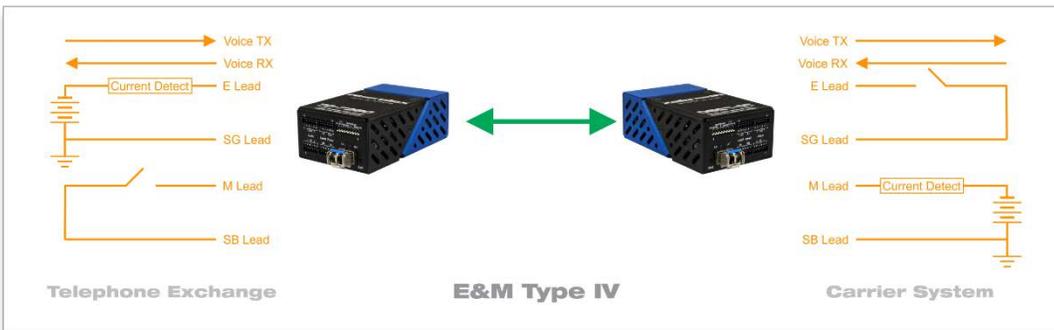


Intercom / Loop mode

One unit is configured as the master, which sets the clock and sampling rate. It polls the loop, with each unit in the loop adding its own input to the aggregated sample, gated by its push to talk, if enabled. When the sample returns back to the master, it then sends out that aggregated sample as the output for all units in the loop. All units forward the aggregated output around the loop until it returns to the master, which discards it. Serial data from the master is replicated on all slaves, and serial data from the slaves is aggregated to output on the master.



Typical Applications



Ordering Information

FOI-7280 Accessories		Part Number
PSQ-4909	Power Supply for size 4 FOI type isolator stand-alone configuration	TD-7280 - L5B
WMA-3002	Wall mount adapter for FOI type isolators	
RMC-3101	19" Rack mount chassis, 5 1/4" (3U) for FOI type isolators	
CMA-3002	Chassis Mounting Adapter for FOI type isolator	
TD-7280 Accessories		
TDR-01-AC	6 Position Powered Rack for TD Series Modules	Optical Interface: L22 = multimode, 1310nm, 2km, LC L5B = singlemode, 1300nm, 20km, LC C = SFP cage, no optical module <i>Other Optical interfaces available on our custom Catalog</i>
PNL	16 Position Modular 1U Connectorization Rack	
PSA-T913	Spare Wall Power Adapter for TD Series Modules, 9V @ 1.3A	
		Series: FOI = Rugged Mil-Grade Housing TD = "Throw Down" Aluminum Housing