Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

MADE IN USA

Model 6763 32-Channel POF-to-TTL Logic Interface Converter

- **Converts POF Fiber Optic signals to TTL Logic signals.**

INTRODUCTION

The Model 6763 is a 32 – Channel POF Fiber to High Speed-TTL Digital Logic Level Interface Converter from Electro Standards Laboratories. It translates 32 fiber optic RX signals into 32 digital logic TTL signal. Typical operating speeds are up to 10 Mbps.

The fiber optic connectors are Versatile Link Plastic Optical Fiber (POF) type. They are located on the rear panel of the unit. The POF channels are (RX1 – RX32) which correspond to the 32 TTL TX copper channels on the 68pin DSub connector.

The unit is powered by an included 5VDC power supply. Power is supplied via a 2-pin Phoenix connector. The power supply input is protected from overvoltage, overcurrent and high power transients. All TTL copper connections feature ESD protection of ±8kV contact discharge, ±15kV air discharge, (IEC61000-4-2). The copper input/output connections are made via the 68-pin VHDCI connector located on the rear of the unit.

Model 6763 / Cat. No. 306763

Connectors:
Copper: (1) 68-Pin female VHDCI Connector
Fiber: (32) Female Versatile Link Plastic Optical Fiber (POF) Connectors; (RX)

Power:
(1) 2-Pin Phoenix Connector;
(1) 5VDC power supply, (Cat. No 531272) included.

Mechanical:
Dimensions: 19.0"W x 3.5"H x 8.4"D (48.2 x 8.8 x 21.3 cm]
Weight: Approximately 6.1 lbs (2.8 kg)

FEATURES INCLUDE:

- ESD protection on all copper interfaces.
- TTL logic level test points on circuit board.
- DSub copper interface connector with threaded 4-40 post hardware.
- Customized jackscrew hardware.

**Model 6763
32-Channel TTL Logic-to-POF Fiber Interface Converter**

For companion interface converter unit, "TTL LOGIC -to- POF FIBER" See Model 6762, Cat. No. 306762

SPECIFICATIONS:

Copper Interface:
Type: TTL Logic
Vih range: (1.4 - 2.1)V
Vil range: (0.6 - 1.4)V

Optical Interface:
TX Power: -3.5 dBm
RX Sensitivity: -23 dBm
Wavelength: 650 nm, multimode
Link Distance:
- Up to 50 meters with 1mm Plastic Optical Fiber (POF)
- Up to 500 meters with 200µm Hard Clad Silica (HCS)
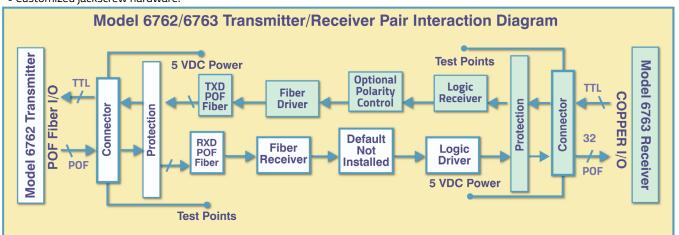
Fiber Polarity:
TTL Logical 0 = Fiber Light OFF
TTL Logical 1 = Fiber Light ON

Data Bit Rate:
Up to 10 Mbps

Operating Environment:
-40°C to +85°C

Model 6762/6763 Transmitter/Receiver Pair Interaction Diagram

36 Western Industrial Drive, Cranston, RI 02921
Tel: 401-943-1164   Fax:401-946-5790

www.ElectroStandards.com
E-mail:eslab@ElectroStandards.com