

Model 6762 32-Channel TTL Logic-to-POF Fiber Interface Converter

- Converts TTL Logic signals to POF Fiber Optic signals.

INTRODUCTION

The Model 6762 is a 32 – Channel High Speed TTL Digital Logic Level to POF Fiber Interface Converter from Electro Standards Laboratories. It translates 32 digital logic RX signals into 32 POF fiber optic TX signals. 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 (TX1 – TX32) which correspond to the 32 TTL RX 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 $\pm 8\text{kV}$ contact discharge, $\pm 15\text{kV}$ 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 6762 / Cat. No. 306762

Connectors:

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

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.

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For companion interface converter unit,
"POF FIBER -to- TTL LOGIC"
See Model 6763, Cat. No. 306763

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

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