

## Model 6766 Four Channel TTL Logic-to-ST Fiber Interface Converter, Desktop

- Converts TTL Logic signals to ST Fiber Optic signals.
- Has screw terminal strips for easy connection of the copper logic signals.

### INTRODUCTION

The Model 6766 is a high speed TTL digital logic level to fiber interface converter from Electro Standards Laboratories. It translates four input/output logic pairs into four fiber pairs, resulting in a total of eight fiber optic connections. Typical operating speeds are up to 5 Mbps.

Features include ESD protection on all copper interfaces, convenient ST fiber connectors, and logic test points that allow for signal monitoring. Provision for user selectable jumpers for fiber light ON/OFF polarity located on circuit board inside the Model 6766 enclosure.

The converter is also available as a circuit board convenient for embedded applications. See Model 6765, Cat. No. 306765.



### SPECIFICATIONS:

#### Optical Interface:

TX Power: -17dBm  
RX Sensitivity: -27.5 dBm  
Wavelength: 820 nm, multimode  
Fiber Size: Accepts 50/125  $\mu\text{m}$ , 62.5/125  $\mu\text{m}$ ,  
or 100/140  $\mu\text{m}$

#### Fiber Polarity:

Logical 0 = Light ON/OFF: User Selectable via Jumper  
Logical 1 = Light ON/OFF: User Selectable via Jumper

#### Copper Interface:

Type: TTL Logic  
Vih range: (3.3 - 5) Vdc Voh range: (3.8-50) Vdc  
Vil range: (0-1.5) Vdc Vol range: (.1-.5) Vdc

#### Bit Rate (nom.): (Board Unit)

0 to 5 Mbps, Nominal

#### Operating Environment:

0°C to +70°C

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#### Copper Terminal Strips:

- (1) Terminal Strip: Channels TXA, TXB, TXC, TXD.
- (1) Terminal Strip: Channels RXA, RXB, RXC, RXD.
- (2) Terminal Strips: Digital Ground, for each channel.

#### Glass Fiber Connectors:

- (8) ST Connectors: RXA, TXA, RXB, TXB, RXC, TXC, RXD, TXD,

#### Power:

Supply Voltage: (4.75 - 5.25) Vdc  
Supply Current: 350 mA  
Power Supply included. (ESL PN: 521091)

#### Mechanical:

Model 6766 / 306766 (Desktop Unit)  
8.38" W x 1.73" H x 8" D [21.9 x 4.6 x 22.9 cm]  
Weight: 2.5 lbs [1.1 kg]

### DIN RAIL MOUNTING KIT AVAILABLE

(Catalog Number 520418)

Optional: DIN rail mounting kit attaches to the bottom cover of the Model 6766 Fiber Interface Converter.

