Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

GSA Schedule
Contract GS-35F-0286V

SPECIFICATIONS
Board Unit... Model 6765
(Cat No. 306765)

Model 6765 Four Channel TTL Logic-to-ST Fiber Interface Converter, Board Unit
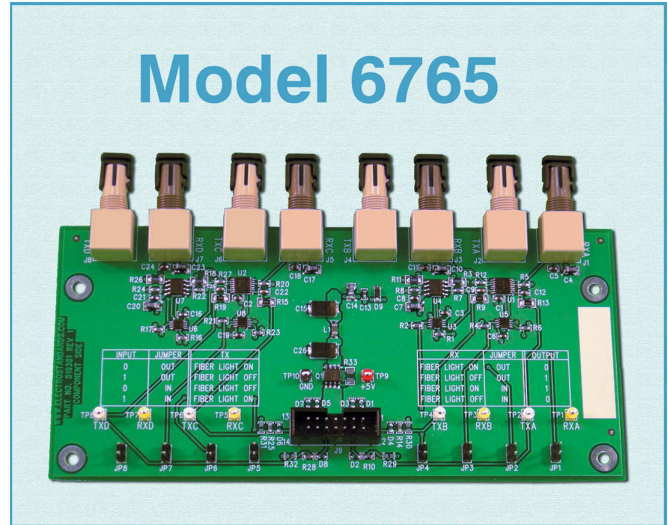## • Converts TTL Logic signals to ST Fiber Optic signals.

INTRODUCTION

The Model 6765 is a high speed 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 user selectable fiber light ON/OFF polarity, convenient ST fiber connectors, and logic test points available for signal monitoring.

The unit is powered from 5 VDC. The power supply input is protected from overvoltage, overcurrent. All TTL copper connections feature advanced ESD protection of ±8kV contact discharge, ±15kV air discharge, (IEC61000-4-2).

See Model 6766, Cat No 306766 for a desktop version of this board unit.

Model 6765

SPECIFICATIONS:

Optical Interface:
  TX Power: -17dBm
  RX Sensitivity: -27.5 dBm
  Wavelength: 820 nm, multimode
  Fiber Size: Accepts 50/125 µm, 62.5/125 µm, or 100/140 µm

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: (1.4 - 2.1) Vdc
  Vil range: (0.6 - 1.4) Vdc

Bit Rate (nom.):
  0 to 5 Mbps, Nominal

Operating Environment:
  0˚C to +70˚C

Model 6765 / Cat. No. 306765

Copper Connectors:
  Copper I/O: (1) 14-pin 0.1 x 0.1 Male Header
  Test Points on Board: For monitoring purposes. (See Manual)
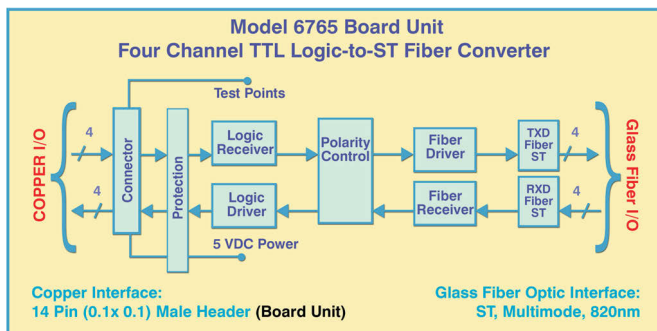
Glass Fiber Connectors:
  (8) ST Connectors: (4) RX / (4) TX

Power:
  Supply Voltage: (4.75 - 5.25) VDC

Mechanical:
  Size: 6.45" x 3" x 0.55"
  Weight: 2.6 oz (74g)
  Mounting: 4 Mounting Holes

Model 6765 Board Unit
Four Channel TTL Logic-to-ST Fiber Converter

Copper Interface:
14 Pin (0.1x 0.1) Male Header (Board Unit)

Glass Fiber Optic Interface:
ST, Multimode, 820nm

Model 6765 Board Unit:
Copper/Glass Fiber Input/Output Diagram

Copper Interface:
14-Pin (0.1 x 0.1 Male Header)
(Board Unit)