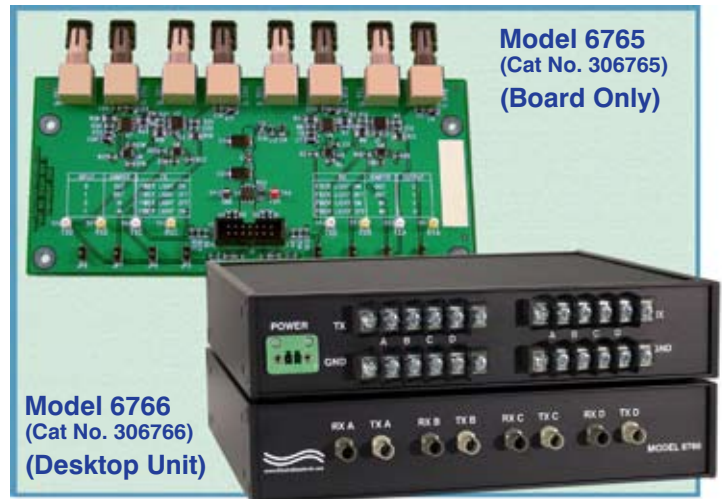


Models 6765 and 6766 Four Channel Logic-to-Fiber Interface Converter

The Models 6765 and 6766 are high speed digital logic level to fiber interface converters from Electro Standards Laboratories. They translate 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 polarity, convenient ST fiber connectors, and logic test points available for signal monitoring. The unit features ESD protection on the copper I/O signals. It is powered by 5 VDC which is filtered and has over voltage and polarity protection. The converters are available as a circuit board convenient for embedded applications (Model 6765) or as a desktop unit (Model 6766) with screw terminal strips for easy connection of the copper logic signals.



Specifications:

Optical Interface: (Board and Desktop Unit)

TX Power: -17 dBm
RX Sensitivity: -27.5 dBm
Wavelength: 820 nm/850 nm, multimode
Fiber Size: Accepts 50/125 μm , 62.5/125 μm ,
or 100/140 μm

Fiber Polarity: (Board and Desktop Unit)

Logical 1 = Light ON/OFF: User Selectable

Copper Interface: (Board and Desktop Unit)

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

Bit Rate (nom.): (Board and Desktop Unit)

0 to 5 Mbps, Nominal

Operating Environment: (Board and Desktop Unit)

0°C to +70°C

Model 6765 / Cat. No. 306765

Connectors: (Board Only)

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

Power:

Requires Supply Voltage: 4.75 VDC to 5.25 VDC, 350 mA

Mechanical: (Board Only)

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

Model 6766 / Cat. No. 306766

Connectors: (Desktop Unit)

Copper: (1) 4 Position Terminal Strip (TXA - TXD)
(1) 4 Position Terminal Strip (RXA - RXD)
(2) 4 Position Terminal Strip (GND)
Fiber: (8) ST Connectors: (4) TX, (4) RX

Power: (Desktop Unit)

UL approved 120VAC, 60Hz wall mount power module supplies 12VDC, 500mA to the unit.

Option: (Desktop Unit)

Wide Range Power Module (Cat. No. 517277) CE and UL listed wall mount power module, 100VAC / 240VAC, 50Hz/60Hz in place of standard 120 VAC power module. Ideal for international applications.

Mechanical: (Desktop Unit)

Size: 8.37" W x 1.73" H x 8" D
Weight: 2.2 lbs (1.04 kg)
Optional DIN Rail Mounting Kit: ESL PN: 520418 for the Model 6766, Desktop Unit

