

Model 2830T/R



HDMI to Fiber Optic Transmitter/Receiver



SYSTEM

Transmission: Up to 1000 ft. (300 M) with suitable graded index fiber optic cable

Typical Bit Error Rate: Better than 10^{-9}

ELECTRICAL SIGNAL INPUT/OUTPUT FOR TRANSMITTER

Format: HDMI

Connector: HDMI

Data Rate: Up to 3.5 Gbps

Input Impedance: 120

Input Power: 5VDC

System Wavelength: 850 nm

Optical Interface: Transmitter is disabled when fiber is removed

Optical Connector: SC

Operating Temperature: 0 °C to 50 °C

Humidity: 0 to 90% Non-Condensing

Metal Enclosure Size: 2.56" X 3.56" X 1.13"
(6.5 X 9.0 X 2.9 cm)

Weight: 0.5lb. (225 grams) Each Unit

TRANSMISSION LINE INTERFACE

Operating distance is dependent upon optical fiber core diameter and the cable's optical attenuation fiber bandwidth at given data rate. The table below indicates cables that may be used at any data rate.

These cables are available in connectorized assemblies to meet the exact configuration of your application.

S.I.Tech offers complete links including fiber optic cable, connectors, cable assemblies, and Bit-Drivers .

HDMI to Fiber Bit-Driver Cable Chart

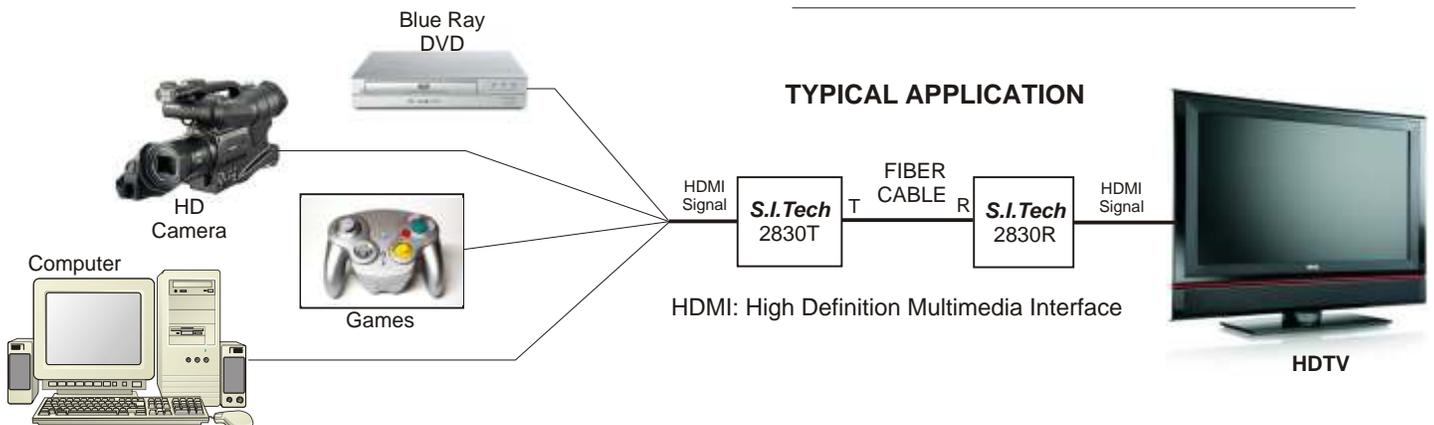
Operating Distance for Fiber Optic Cable				
Data Rate	OM1 fiber (62.5 micron, 160MHz/km) Meters (Feet)	OM2 fiber (50 micron, 500MHz/km) Meters (Feet)	OM3 fiber (62.5 micron, 1000MHz/km) Meters (Feet)	OM4 fiber (50 micron, 1100MHz/km) Meters (Feet)
1.65 Gbps	61 (200)	122 (400)	305 (1000)	344 (1100)
	61 (200)	122 (400)	122 (400)	245 (800)
3.50 Gbps	30.5 (100)	61 (200)	152 (500)	152 (500)
	30.5 (100)	61 (200)	122 (400)	122 (400)
	30.5 (100)	61 (200)	70 (294)	122 (400)

Meets FCC requirements of Class A, Part 15 Computing Devices Standard.

Specifications subject to change without notice.



TYPICAL APPLICATION



HDMI: High Definition Multimedia Interface