FIBER·TRONIX

…communicating at the speed of light

FT-FOTRHQ-8V2D-ST-S
Eight Input Video Transmitter and Receiver With Two Channels Of Bi-Directional Multi-Protocol Data Transmission

Features:

- 10 Bit digital video transmission
- High speed synchronization with digital transmission technology
- Wide optic dynamic range, no adjustments required
- LCD Indicators for power, optic, video & data
- Immunity to electrical interference, ground loops & radio frequency interference
- Safe, clear transmission in bad electromagnetic environments
- Surface mount technology design
- Video DC restoration
- Supports RS485, RS422 or RS232

Description:

The FT-FOTRHQ-8V2D-ST-S fiber optic transmitter/receiver supports the transmission of eight baseband video channels and two channels of bi-directional, multi-protocol data over one strand of single-mode fiber optic cable. This product is compatible with NTSC and PAL video signals. Power, optical signal, video signal and data signal are easily inspected through LED indicators directly on the units. The transmitter and receiver combination supports transmission distances for optical loss budgets of less than 16 dB.

Specifications:

Optical

Optical Wavelength:	1310nm / 1550nm
Fiber Type:	Single-mode 9/125 µm
Max Link Distance:	12.5 miles
Connector:	Simplex ST
Acceptable loss budget:	16 dB

Video

Number of Inputs:	8
Video Connectors:	BNC Female
Input Impedance, Transmitter:	75Ω (Unbalanced)
Output Impedance, Receiver:	75Ω (Unbalanced)
Video Input Level:	1V p-p
Video Input Overload Level:	>1.5V p-p
Video Bandwidth per Channel:	5Hz - 10MHz
Video SNR:	>67 dB
Differential Gain:	<1%
Differential Phase:	<1°
Tilt:	<1%

Data

Data Rate:	DC - 250Kbps
Data Interface:	RS485, RS422 or RS232
Baud Rate Per Channel:	0 - 100Kbps
Bit Error Rate:	$<10^{-9}$
Connector:	Terminal Block

General

Power Supply:	12VDC
Power Consumption:	2.8W
Operating Temperature:	-40°F - 167°F
Storage Temperature:	-40°F - 185°F
Operating Humidity:	0-95% (Non-condensing)

Contents Include:

- 1 Transmitter
- 1 Receiver
- 2 Power supplies
- 1 Instruction manual

Ordering Information:

FT-FOTRHQ-8V2D-ST-S