

### TC-FD1013CT/R SERIES

**DIGITALLY ENCODED VIDEO WITH BI-DIRECTIONAL DATA AND BI-DIRECTIONAL CONTACT CLOSURE**



#### DESCRIPTION

The Tiandy TC-FD1013CT/R Series video, data and contact closure transmitter and receiver support broadcast quality transmission of 8-bit digitally encoded video and bi-directional data and contact closure over one multimode and singlemode optical fiber. The modules are compatible with NTSC, PAL and SECAM CCTV camera systems and support RS-485, RS422 and RS232 data protocols. Plug and Play design ensures the convenience of installation and operation. User adjustments are never required. The modules come in either standalone or rack mount versions.

#### SPECIFICATIONS

##### VIDEO

Video Input:	1 volt pk-pk (75 ohms)
Bandwidth:	5 Hz - 8 MHz
Bit Resolution:	8-bit
Differential Gain:	< 2%
Differential Phase:	< 0.6°
Tilt:	< 1%
S/N Ratio:	67dB (Weighed)

##### DATA

Data Interface:	RS-485, RS-422, RS-232
Data Rate:	100Kbps
Bit Error Rate:	10 <sup>-9</sup>

##### CONTACT CLOSURE

Relay 24 VAC/200mA (Normally Open)

##### WAVELENGTH

850/1310nm, Multimode  
1310/1550nm, Singlemode

#### FEATURES

- 8-Bit Uncompressed Video Transmission
- NTSC, PAL or SECAM Video Standards
- Transmit up to 30km without Optical Attenuation
- Simultaneous Transmission of Video and Data
- WDM Technology for Higher Reliability
- No EMI, RFI, Cross Talk and Ground Loop
- No Electrical or Optical Adjustments Required
- LED Indicators Instantly Monitoring System Performance
- Standalone or Rack Mount

##### OPTICAL EMITTER

Laser Diode

##### NUMBER OF FIBERS

1

##### CONNECTORS

Optical:	ST (SC & FC Optional)
Video:	BNC
Data:	Terminal Block with Screw Clamps

##### GENERAL

Power Supply:	DC5V @ 300mA
Size:	119mm × 135mm × 36mm
Construction:	Aluminum
Finish:	Black Paint
MTBF:	> 100,000 hours
Operating Temp:	-30°C to +50°C
Storage Temp:	-40°C to +85°C
Relative Humidity:	0% to 95% (no condensing)

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