Infinitẽ Fiber

Video Optical Transmitter / Receiver

Overview

Video transceivers can simultaneously transmit 1-64 channels of 8-bit digitally encoded broadcast quality video of unidirectional or bi-directional data. Dry contact over one single-mode optical fiber is available upon request. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for real time monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

2U/4U Chassis can accommodate a combination of up to 18 pieces 1-4 channel video modules. The chassis employs 200V ~ 240V AC Switch Mode Power Supply (SMPS) design, which reduces the possibility of a single power module failure causing a shutdown or a major failure of other modules within the chassis. The high reliability and stability ensures that if one power module shuts down, the operation of the other modules remains unimpaired. One or two air-cooling fans are installed inside to further strengthen the superior performance of the system and eliminate the necessity for periodic maintenance. Status information can be read through the LED indicators on the installed modules. All of the modules installed in the chassis are hot swappable, which makes it unnecessary to power-down the chassis when replacing modules.

Product Highlights

- 8-bit digitally encoded and non-compression broadcast quality video transmission
- Compatible with NTSC, PAL, and SECAM CCTV camera systems
- Support RS-232, RS-422, and RS-485 data protocols (optional)
- Support any high-resolution video signal
- Power supply and other parameter state indication, which can monitor the operation condition of system
- Constant output optical power, and large dynamic range, no Electrical or Optical adjustments required.
- Hot-swappable

Technical Specifications

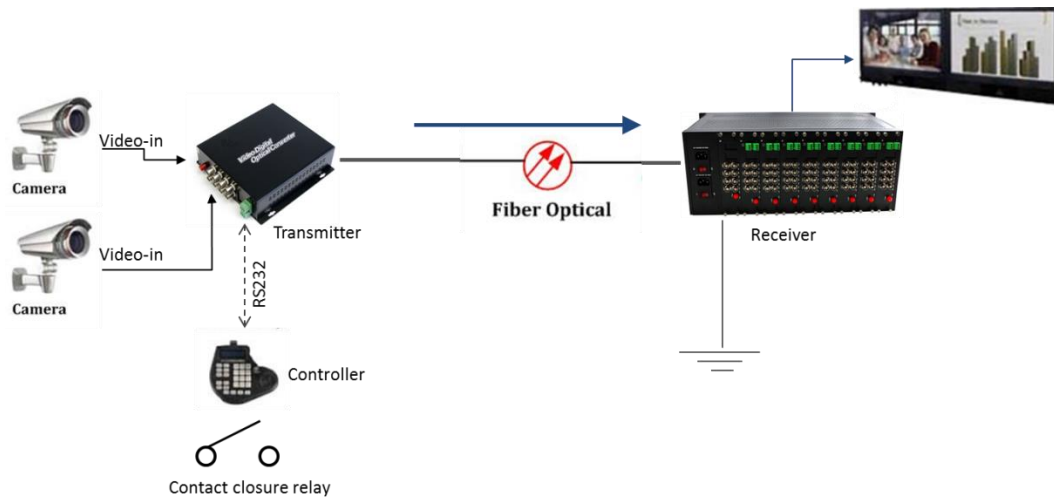| Chassis	2U Type	4U Type
Module Slots	16	18
Type of Module	1-video	2 ~ 8 video
Dimension (mm)	492(L)x291(W)x92(H); 19" 2U	482(L)x306(W)x177(H); 19" 4U
Power	IN: AC 200V ~ 240V; OUT: DC 5V 12A ; Internal power supply	IN: AC 200V ~ 240V; OUT: DC 5V 20A ; Internal power supply

Standalone/Module (Uni-direction)			
No. of video channel	1-channel	2~4 channel	6~8 channel
No. of video port	1 port	2~4 port	6~8 port
Dimension (mm)	111(L)×107(W)×28(H)	192(L)×152(W)×28(H)	192(L)×152(W)×56(H)
Standalone/Module (Bi-direction)			
No. of video channel	1~2 channel	4 channel	
No. of video port	2~4 port	8 port	
Dimension (mm)	192(L)×152(W)×28(H)	192(L)×152(W)×56(H)	
Power	IN: 100V ~ 240V AC; OUT: DC 5V 1A ; External Power Adapter		

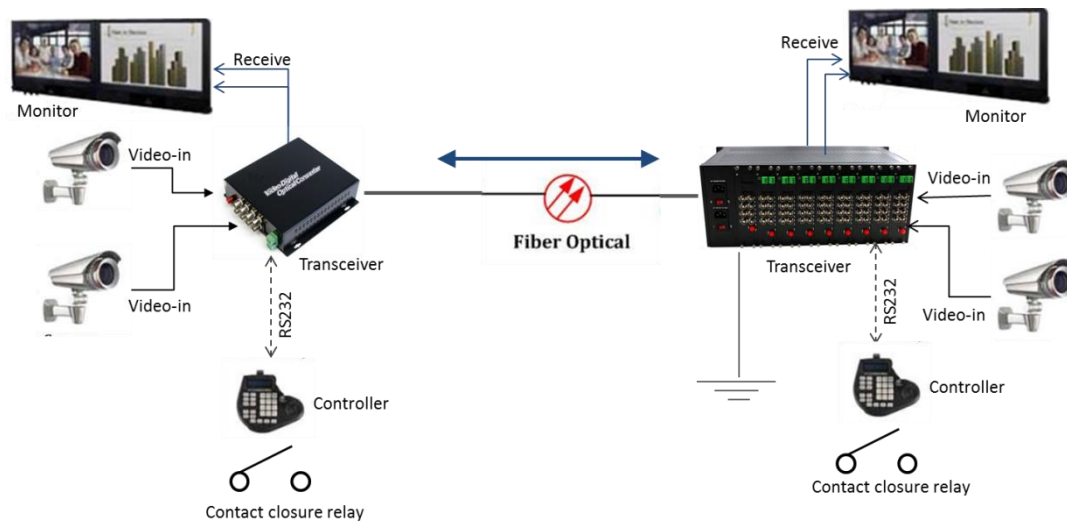| General Specification	
Optical Port Connector	FC (standard) ; ST/SC (optional)
Transmission distance	20km
Operating Wavelength	Uni-Directional: Tx1310nm (Transmitter); Rx1310nm (Receiver) Bi-Directional: Tx1310nm/Rx1550nm; Tx1550/Rx1310nm
Video	Format: PAL/NTSC/SECAM Video Signal: 1Vp-p, 75Ω Digitization: 8 bits Bandwidth: 8MHz DG: <1% (typical value) DP: <0.7^{o} (typical value) SNR: ≥67dB Connectors: BNC
Dry Contact (Optional: Data)	Channel: 1 (Uni-direction) or 2 (Bi-directional) Connector: Terminal Blocks Encoded type: RS485 / RS422 / RS232 (*Applied to Data only*) Data rate : 0 - 400Kbps (*Applied to Data only*)
Storing Temperature	-40℃ to +85℃
Operating Temperature	-20℃ to +60℃
Humidity	0 to 95% (non-condensing)

Typical Application

Application 1: Uni-direction scenario

Application 2: Bi-direction scenario

Ordering information

Model no.	Description
INFV*1w-120Fd#	*-channel video optical, 20KM, SM, FC port, 220V AC, single fiber, standalone
INFV*0w-120Fd#	*-channel video optical, 20KM, SM, FC port, single fiber, module card
INFV*h4	hU slot chassis for *-channel video optical modular card with redundancy power

Remark:

*: number of video channel (1: 1 channel; 2: 2 channel; 4: 4 channel; 8: 8 channel)

h: height of chassis (2: 2U chassis; 4: 4U chassis)

d: function (T: Transmitter; R: Receiver; B: Bi-direction Transmit & Receive)

w: wavelength (3: 1310nm, 5: 1550nm)

#: dry contact / data (0: 1 dry contact, 1: 2 dry contact, 3: RS485 Rx, 4: RS485 Tx, 5: RS485 bi-directional, 6: RS232 Rx, 7: RS232 Tx, 8: RS232 bi-directional)

BSI
ISO9001:2000
ISO14001:2004
OHSAS18001:1999

*These figures are nominal values.
*Infinite Cable System reserves the right to modify products and specifications without prior notice.