

Fiber Optic Video/Data/Audio/Ethernet/Telephone Multiplexer

PRODUCT OVERVIEW

Our 1-64 channel video multiplexers can simultaneously transmit 1-64 channels of 8-bit digitally encoded broadcast quality video / return or bidirectional data / unidirectional or bidirectional audio / Ethernet / Telephone / Switching value over one multimode or singlemode optical fiber. 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 instantly monitoring system status. Devices are available for either standalone or rack-mount installation ,which is suitable for different working environment .



PRODUCT CHARACTERISTICS

- ◆ 8-bit digitally encoded and non-compression broadcast quality video transmission
- ◆ Directly compatible with NTSC, PAL, and SECAM CCTV camera systems and support RS-232, RS-422, and RS-485 data protocols
- ◆ Support any high-resolution video signal
- ◆ Automatic compatible PAL, NTSC and SECAM video system
- ◆ Power supply and other parameter state indication, which can monitor the operation condition of system
- ◆ Support no-damage regenerative trunk of video
- ◆ Constant input optical power, and large dynamic range ,no Electrical or Optical Adjustments Required .
- ◆ Special ASIC design .
- ◆ Industry-grade of operating temperature from -40°C to 85°C , which is applied to the different working environment
- ◆ Hot-swap function
- ◆ We can offer rack-mounted chassis in standard 1U/2U/2.5U/4U .

TECHNOLOGY CHARACTERISTICS

VIDEO

Video interface number	1-64 channel video
Bandwidth of video	5MHz-7.5 MHz
Video input / output impedance	75 Ω (imbalance)
Differential gain	(10%-90%APL) DG <1% (typical value)
Differential phase	(10%-90%APL) DP <0.7° (typical value)
Automatic compatible video system	PAL SECAM NTSC
Weighted signal-to-noise ratio	S/N \geq 70dB
AUDIO	
Interface port	RJ-45 Lotus Block industrial standard port
Audio input / output impedance	600 Ω (Balance/lmbalance)
Audio input / output voltage	2Vpp (typical value)
Audio input / output level	0 dbm (typical value)
Audio Bandwidth	10Hz~20kHz
Audio Digital Bandwidth	24 bit
Audio signal-to-noise ratio	S/N \geq 95dB (weighted)
DATA	
Interface Port	RJ-45 industrial standard port
Interface Signal Type	RS485/RS422/RS232/Manchester
Code rate	0~400Kbps
BER	$\leq 10^{-9}$
ETHERNET	
Interface Port	RJ45
Duplex	Full duplex/half duplex
Supporting agreements	IEEE802.3、10M、10/100M automatic negotiation
TELEPHONE	
Interface Port	RJ11
Bandwidth of telephone	8KHZ
Special functions	Support call-showing function;support H-F
Operating mode	Point-point hot line mode/program-controlled exchange mode
OTHER NORMAL	
MTBF	$\geq 10^5$ hours
Operating Temperature	-40°C ~ 85°C
Humidity	0~95% non-condensing
Operating Voltage	Input:AC220v or DC-48V/24V ; Output:DC 5V/2A
OPTICAL	
Fiber connector	FC /SC /ST
Transmission distance	0-100KM
Wavelength	1310/1550 μ m
EXTERNAL DIMENSIONS	
Wall-link-type (stand alone)	1-channel Mini-type:11.1(L) \times 10.7(W) \times 2.8(H) cm
	1-4 channel : 19.2(L) \times 17.3(W) \times 2.8(H) cm
	5-8 channel : 19.2(L) \times 17.3(W) \times 5.6(H) cm
Rack-mount chassis Type	9-16 channel : 48.3(L) \times 18(W) \times 4.4(H) cm

APPLICATIONS

- Intelligent Transportation System
- Connection of Sub-network for Surveillance Center
- Public Security Surveillance
- High Way & Toll Station Surveillance
- High Quality Video Conference
- Industrial Closed Circuit Television Surveillance
- Coliseum using for TV-live ,audio transmission

APPLICATION TABLE

