

Ficom FOWAY8004 series digital non-condensing video optical transceivers



Overview:

Ficom FOWAY8004 4 channels digital video optical transceiver, can transmit 4 channels high quality video、1~8 channels audio or 1~4 channels bi-directional audio、1~4 channels positive/reverse/bi-directional Asynchronous data or 1~4 channels bi-directional switch value in one fiber.

It adopts full digital non-condensing techniques, and supports high-resolution movement and still picture-undistorted transmission.

It is now widely used in security monitoring and control system、highway、Traffic Control Photographic System、automation and intelligent residence.

Character:

Industrial-level design with SMT techniques

Full digital transmission in fiber, multi-service flexible configuration on the same platform

Supply desktop and integrated card type

Based on large scale integrated circuit

Transmission in single-fiber, dual-fiber is optional

Fully compatible with PAL/NTSC/SECAM

Support asynchronous data (positive/reverse), transmission rate is up to 115.200Kbps

Support RS232、RS422、RS485 or Manchester code

Technical specification**Fiber port**

Port	FC/SC/ST optional
Wavelength	Single-mode 1310nm/1550nm
Multi-mode	850nm/1310nm
Transmission power	≥-9dBm
Receiving sensitivity	>-34dBm (bit error rate < 10 ⁻¹¹)
Transmission distance	Single-mode 20/40/60/80/100/120Km
Multi-mode	2Km

Video

Signal type	PAL/NTSC/SECAM
Nominal input/output level	1Vp-p
Nominal input/output impedance	75Ω
Bandwidth per channel	6.5 MHz
Sample frequency	13.5MHz
Quantization	8bit
Connector	BNC interface

Audio

Bandwidth per channel	20Hz~20K Hz
Sample frequency	48K Hz
Quantization	24bit
THD (Total Harmonic Distortion)	0.1% (typical value)
Audio connector	RJ45 interface

Asynchronous data

Connector	RS232/RS485/RS422/ Manchester code
Working mode	Full/Half Duplex
Data rate	115.200Kbps
Bit error rate	<1×10 ⁻⁹
Data connector	RJ45 interface

Ethernet

Standard	IEEE802.3, IEEE802.3u
Working mode	10/100M adaptable, Full/Half Duplex
Connector	RJ45 interface

Switch value

Number of channels	1 channel
Working mode	set open/shorted circuit alarm
Connector	RJ45 interface

Operating environment

Power supply	AC180V~240V; DC-48V; DC+24V
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Operating temperature	0°C-50°C
Storage temperature	-40°C-+70°C
Relative humidity	95%

Dimension

172mm×141mm×19.7mm

Order information

Type	Function	Specification
FOWAY8004T/R-S20F	4V↑	4-channel video 20 kilometers FC
FOWAY8004T/R-RD1-S20F	4V↑+1D↓	4-channel video+1-channel reverse data 20 kilometers FC
FOWAY8004T/R-BD1-S20F	4V↑+1D↑↓	4-channel video+1-channel bi-directional data 20 kilometers FC
FOWAY8004T/R-BD2-S20F	4V↑+2D↑↓	4-channel video+2-channel bi-directional data 20 kilometers FC
FOWAY8004T/R-A2BD1K2-S20F	4V↑ + 2A↑+1D↑↓+2K↑	4-channel video+2-channel audio+1-channel bi-directional data+2-channel switch value 20 kilometers FC
FOWAY8004T/R-A8-S20F	4V↑+8A↑	4-channel video+8-channel audio 20 kilometers FC
FOWAY8004T/R-A2BD1E1-S20F	4V↑+2A↑+1D↑↓+1E	4-channel video+2-channel audio+1-channel bi-directional data+1-channel Ethernet 20 kilometers FC
FOWAY8004T/R-A2BD2-S20F	4V↑+2A↑+2D↑↓	4-channel video+2-channel audio+2-channel bi-directional data 20 kilometers FC
FOWAY8004T/R-A6BD1-S20F	4V↑+6A↑+1D↑↓	4-channel video+6-channel audio+1-channel bi-directional data 20 kilometers FC
FOWAY8004T/R-A1RD1-S20F	4V↑+1A↑+1D↓	4-channel video+1-channel audio+1-channel reverse data 20 kilometers FC
FOWAY8004T/R-A1BD3-S20F	4V↑+1A↑↓+3D↑↓	4-channel video+1-channel bi-directional audio+3-channel bi-directional data 20 kilometers FC