



Video/Audio/Data Link(Transceiver)



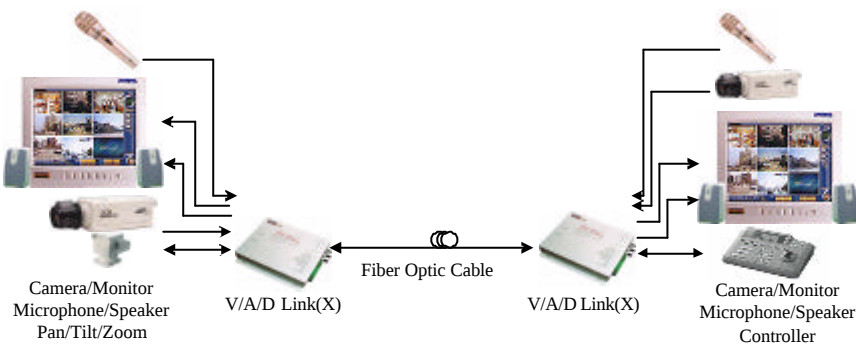
➤ Main Features

- Composite (NTSC, PAL, SECAM, RS-170, CCIR)
- 5Hz ~ 10MHz video bandwidth
- 112Kbps data rate
- RS-232/422/485 data duplex operating mode
- $< 1/10^9$ bit error rate
- 2.2V_{p-p}(600 Ohm) input audio signals
- 20Hz ~ 20KHz audio bandwidth
- Transmission distance up to 80km(at 1550nm SM)
- 7~25Vdc or 12~24Vac free-volt power input
- > 60dB SNR
- Digital modulation
- Ambient operating temperature : -40~70°C

➤ Descriptions

Cominet's Video/Audio/Data Link converts video signals from cameras, audio signals from microphones and RS-232/422/485 data signals to optic signals and transmits up to 80km. It is free from electric noise compare to coaxial cable and has the powerful advantage that transmits multi-channels of video/audio/data signals without additional equipment through a pair of or just one optic line. DM(Digital Modulation) type of optic link can transmits 1 channel of video, 2 channels of audio and 1 channels of data signals and more, and DM type is immune from noise and can transmits higher quality of signals to long distance remote site.

➤ Applications



➤ Ordering Information

Mode	Model Name	Description	Fiber Count	Max. Distance
Multi Mode	F121-37X-80	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 850nm	2	2Km 4Km
	F121-37X-31	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1310nm		
Single Mode	F121-37WA-A0	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 850/1310nm	1	2Km
	F121-37WB-B0	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1310/850nm		
	F121-37X-32	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1310nm	2	20Km 40/60/80 Km
	F121-37X-54/6/8	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1550nm		
	F121-37WA-C2/4	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1310/1550nm	1	20/40Km
	F121-37WB-D2/4	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1550/1310nm		
	F121-37WA-C6/8	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1310/1550nm	1	60/80Km
	F121-37WB-D6/8	bi-dir. 1ch Video, 2ch Audio, 1ch Data Transceiver 1550/1310nm		

Cominet Fiber Optic Link

➤ Specifications

Specifications	Transceiver (F121-37x-xx)		Transceiver (F121-37x-xx)	
	X-80, X-31 WA-A0	X-32, 54, 56, 58 WA-C2, 4, 6, 8	X-80, X-31 WB-B0	X-32, 54, 56, 58 WB-D2, 4, 6, 8
Optical Specifications				
Fiber Type	Multi-Mode	Single-Mode	Multi-Mode	Single-Mode
Number of Fiber	2 fiber 1 fiber	2 fiber 1 fiber	2 fiber 1 fiber	2 fiber 1 fiber
Wavelength(nm)	850, 1310 850/1310	1310, 1550 1310/1550	850, 1310 1310/850	1310, 1550 1550/1310
Max Distance(km)	2, 4 2	20, 40, 60, 80	2, 4 2	20, 40, 60, 80
Connector	ST (FC – Option)			
Video Input/Output Signal Specifications				
Number of Channels	1channel			
Video Input/Output Signal	1V _{p-p} (75Ohm) Composite (NTSC, PAL, SECAM, RS-170, CCIR)			
Bandwidth	5Hz ~ 10MHz			
Differential Gain	< 2%			
Differential Phase	< 2°			
Signal-Noise	> 65dB			
Connector	BNC			
Audio Input/Output Signal Specifications				
Number of Channels	2 channels			
Audio Input/Output Signal	2.2V _{p-p} (600 Ohm)			
Bandwidth	20Hz ~ 20KHz			
Signal-Noise Ratio	60dB			
Connector	RCA Jack			
Data(RS-232/RS-422/RS-485) Input/Output Signal Specifications				
Number of Channels	1 channel			
Operating Mode	Half/Full Duplex			
Data Rate	112Kbps			
Bit Error Rate	< 1/10 ⁹			
Connector	D-Sub 9pin Male			
Power Specifications				
Input Voltage	7~25Vdc or 12~24Vac			
Power Consumption(W)	6			
Connector	Terminal Block			
Environment Specifications				
Operating Temperature	-40°C ~ 70°C			
Storage Temperature	-50°C ~ 85°C			
Humidity	0% ~ 95%(Non-Condensing)			
Physical Specifications				
Dimension(L×W×H)	Standalone type : 180.5×118.2×39.5(mm) Rack mountable type : 19" width, 1U height Line-card type : 3U height			



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