

# Video Link

CF0121 MULTIMODE 1 CHANNEL VIDEO WITH DUPLEX AUDIO/DATA/CC LINK

**The CF0 First Mile series provides high quality reliable transmission of video, audio, data and contact closure information for CCTV applications such as security and surveillance.**

CF0121 link offers zero delay video transmission with three bi-directional data, two audio and one contact closure signals over one multimode fibre.

High quality video pictures can be achieved on a single multimode fibre, over distances up to 3...3,7 km depending on the type of fibre used.

The application area covers for the transmission from camera to monitoring centre as well as the first part of a total video network from camera to collection point for multi-channel video transmission or video networking.

CF0121 is available in three different sizes. CRT/CRR121 units are used for standard 19" CSR rack installations, as well as for stand-alone installations in CMA wall mount adapter.

CMT/CMR121 units are compact size, field-hardened stand-alone units for field-hardened installations.

CCT121 unit is having the smallest form factor, available also for field-hardened stand-alone installations.

The CF0121 link is compatible with all CFO system mechanics, and as with all CFO platform products, the unit meets all international EMC and environmental requirements.



**Field hardened CCT121 and CMT121 stand-alone units.**

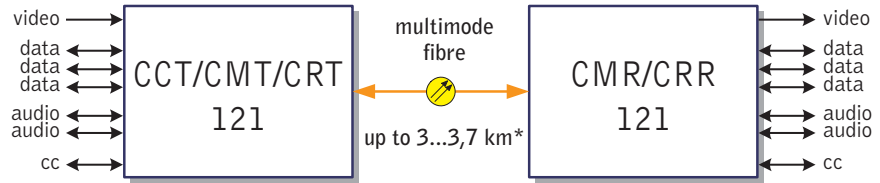
# Video link

## CF0121

### FEATURES AND BENEFITS

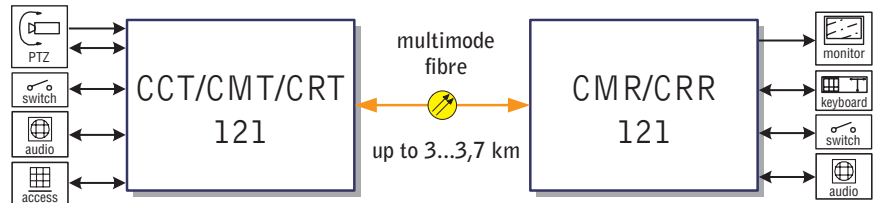
- High performance uncompressed zero delay digital video, SNR 70 dB
- 12 bit video sampling
- PAL/NTSC/CVBS video
- Bi-directional data/audio/contact closure transmission (Tx <-> Rx)
- Supports EIA232/422/485 data, interfaces configurable
- Transmission on one multimode fibre up to 3 km
- Available also in a compact-size design for camera housing installations
- Stand-alone models for field hardened operation (-34 ... +74 °C)
- International EMC and environmental conformance

### BLOCK DIAGRAM



\*) The typical bandwidth limited optical transmission distance is 3.7 km for 50/125µm fibre and 3 km for 62.5/125µm fibre

### APPLICATION EXAMPLE



### TECHNICAL SPECIFICATIONS

Parameter	Specification	Note	Parameter	Specification	Note
<b>Optical (video + data)</b>			<b>Data</b>		
Output wavelength	1310 nm		Number of channels	3 bi-directional	
Output power	-3 dBm +1 dBm	into 50/125 µm fibre into 62.5/125 µm fibre	Data 1 format	RS232	non-selectable
Input sensitivity	-18 dBm		Data 2 & 3 format	RS232/422/485	selectable
<b>Optical (return data)</b>			Data rate	0...160 kbps	
Output wavelength	850 nm		Oversampling rate	1.6 MHz	
Output power	-3 dBm +1 dBm	into 50/125 µm fibre into 62.5/125 µm fibre	Dwelltime setting	50...10000 µs	RS485
Input sensitivity	-18 dBm		<b>Contact Closure</b>		
<b>Video</b>			Number of channels	1 bi-directional	
Number of channels	1 x uni-directional		Data rate	5 Hz	
Sampling rate	16 MHz		<b>Management</b>		
Sampling resolution	12 bit		Type	command line interface (CLI)	
Impedance	75 ohm		Protocol	VT100/102, ANSI	
Level	1 Vpp		Data format	RS232	
Bandwidth	5.5 MHz 6.5 MHz	-1 dB -3 dB	<b>General</b>		
C/L gain inequality	3 %		Supply voltage	10.5...14 V DC	regulated
C/L delay inequality	60 ns		Current consumption (max)	600 mA	12 V
Differential gain	< 2 %		Dimensions (H x W x D) *)	3U x 10HP x 190 mm	CRT/CRR121
Differential phase	< 2 °			133 x 54,2 x 88 mm	CMT/CMR121
S/N ratio	70 dB			115,5 x 50,5 x 85 mm	CCT121
<b>Audio</b>			Weight	0.5 kg	
Number of channels	2 bi-directional	unbalanced	Connectors	1 x BNC female 4 x RJ-45 female 1 x ST	video data/audio/mgmt optical
Sampling frequency	62.5 kHz		Operating temperature	-34...+74 °C	field hardened
Sampling resolution	16 bits		Storage temperature	-40...+80 °C	
Input impedance	10k ohm		Humidity	0...95 %	non condensing
Output impedance	1k ohm		Enclosure classification	IP21	
Nominal level	+0 dBV		Vibration	EN50130-5: 1995	
Clipping level	+12 dBV		Damp heat	BS2011 p2.1, test dB, 95%rh 25...40 °C	
Frequency response	1 dB 0.02 ...20 kHz	ref. 1 kHz	Emissions	EN61000-6-4, EN55022-B	
S/N ratio	64 dBq	CCIR weighted	Susceptability	EN50130-4, EN50082-1	
			<b>Notes</b>		
			*) Without connectors		



Order No. CRT-121 5.23753  
 Order No. CMT-121 5.23754  
 Order No. CCT-121 5.23755  
 Order No. CRR-121 5.23756  
 Order No. CMR-121 5.23757

Technical alterations reserved

[www.geutebrueck.de](http://www.geutebrueck.de)

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