

CF0422 MULTIMODE 4 CHANNEL VIDEO WITH DUPLEX DATA/AUDIO/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.

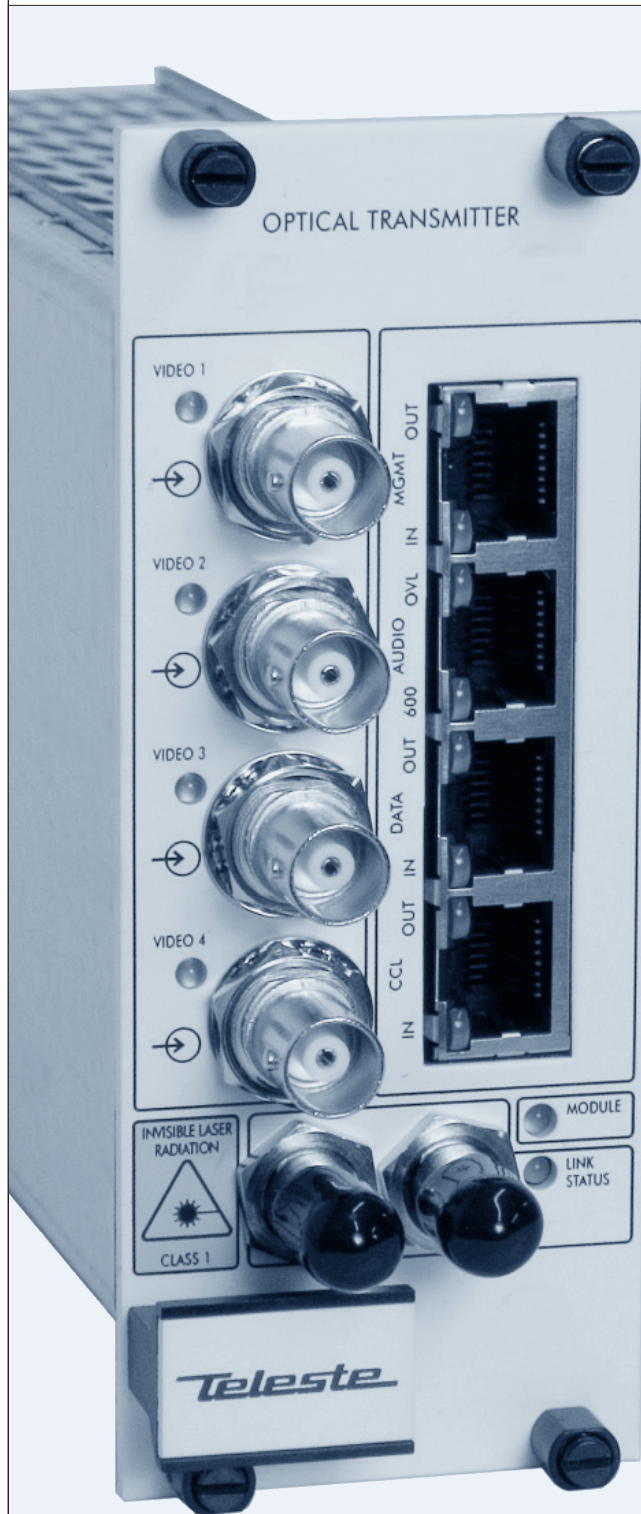
CF0422 video links are basic building blocks for multi-channel video transmission system providing uni-directional transmission of 4 zero-delay video channels together with bi-directional audio, data and contact closure channels over two 1310 nm multimode fibres.

The product utilises the latest uncompressed digital technology to provide very high performance video and audio transmission and reliable error free data services. All common data protocols are supported and are easily selectable from the same unit. CF0422 units are fully compatible with CFO platform installation mechanics. Standard CSR series racks and CMA series module adapters are available for easy installations.

As with all CFO Platform products the units meet all standard EMC and environmental requirements.



CF0422 series video link consist of a transmitter - receiver pair communicating over two multimode fibres.



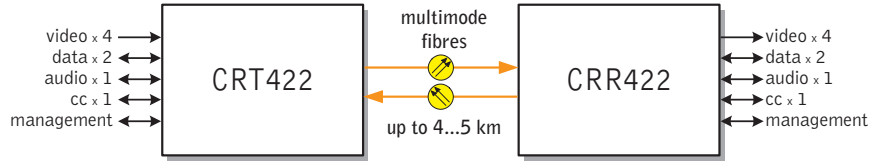
Video Link

CF0422

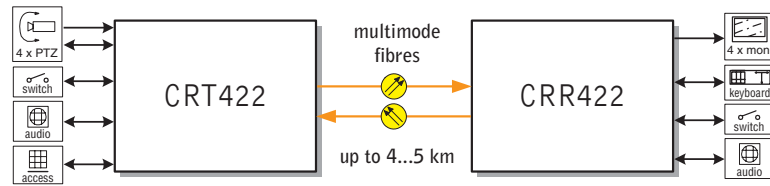
FEATURES AND BENEFITS

- High performance uncompressed zero delay digital video transmission, SNR 60 dB typical, 8 bit video sampling
- Four CVBS (PAL/NTSC) or two Y/C video channels
- 2 x bi-directional data interfaces, compatible with EIA232/422/485
- User data rate up to 160 kbps / channel
- 1 x bi-directional audio
- 1 x bi-directional contact closure
- Transmission on two multimode fibres up to 5 km depending on fibre bandwidth
- In-band configuration and management
- Card format applicable both for rack mount and stand-alone installations
- Mechanically compact and ruggedised
- EMC and environmental conformance
- CE approved

BLOCK DIAGRAM



APPLICATION EXAMPLE



TECHNICAL SPECIFICATIONS (Typical values unless otherwise stated)

Parameter	Specification	Note	Parameter	Specification	Note
Optical			Contact Closure		
Wavelength	1310 nm	bi-directional	Number of channels	1	bi-directional
Output power	-7 dBm		Input	dry contact	
Received power	-20 dBm		Output	30V / 1A (relay)	max
Video			Switching frequency	5 Hz	
Number of channels	4 / 2	CVBS / S-video	Management		
Standard	PAL/NTSC or Y/C (S-video)		CLI	RS232	
Source and load impedance	75 ohm		Protocol	VT100/102, ANSI	
Sampling resolution	8 bits		General		
Input and output signal levels	1 Vp-p		Supply voltage	10.5...14 V DC	regulated
Input overload level	1.5 Vp-p	DC component	Current consumption (max)	800 mA	steady state
Bandwidth	5.5 MHz	- 3 dB	Dimensions (H x W x D)	3U • 10HP • 190 mm	without CMA
C/L gain inequality	3 %		Weight	0.7 kg	
C/L delay inequality	60 ns		Connectors		
Differential gain	1 %		Video	BNC female	
Differential phase	1°	n/a for S-video	Data/audio/cc/mgmt/Ethernet	RJ-45 female	
S/N ratio	60 dB	unified, weighted	Optical	ST	
Data			Environmental		
Number of channels	2	bi-directional	Operating temperature	-10...+55 °C	
Data 1 format	RS232	fixed	Storage temperature	-30...+70 °C	recommended
Data 1 rate	0...120 kbps		Humidity	0...95 %	non condensing
Data 2 format	RS422/485/TTL	selectable	Vibration	EN50130-5:1995	
Data 2 rate	0...160 kbps		Damp heat	BS2011 p.2.2, testdB, 95%Rh 25...40 °C	
Dwelltime setting	50...10000 µs	RS485 2-wire	EMC compatibility		
Audio			Emissions	EN50081-1	
Number of channels	1	bi-directional	Susceptibility	EN50130-4	
Sampling frequency	52 kHz				
Sampling resolution	16 bits				
Input impedance	600/10k ohm	selectable			
Output impedance	10 ohm				
Nominal level	+ 6 dBm				
Clipping level	+12 dBm				
Frequency response	0.02...20 kHz	- 1 dB, ref. 1 kHz			
S/N ratio	70 dBq	CCTR weighted			

TELESTE VIDEO NETWORKS

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