

CF0161 SINGLEMODE 1 CHANNEL VIDEO WITH DUPLEX DATA/AUDIO/CC/ETHERNET 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. New **CF0161** video links are basic building blocks for multi-channel video transmission system providing unidirectional transmission of 1 zero-delay video channel together with bi-directional audio, data, contact closure and Fast Ethernet channels over one 1310nm singlemode fibre.

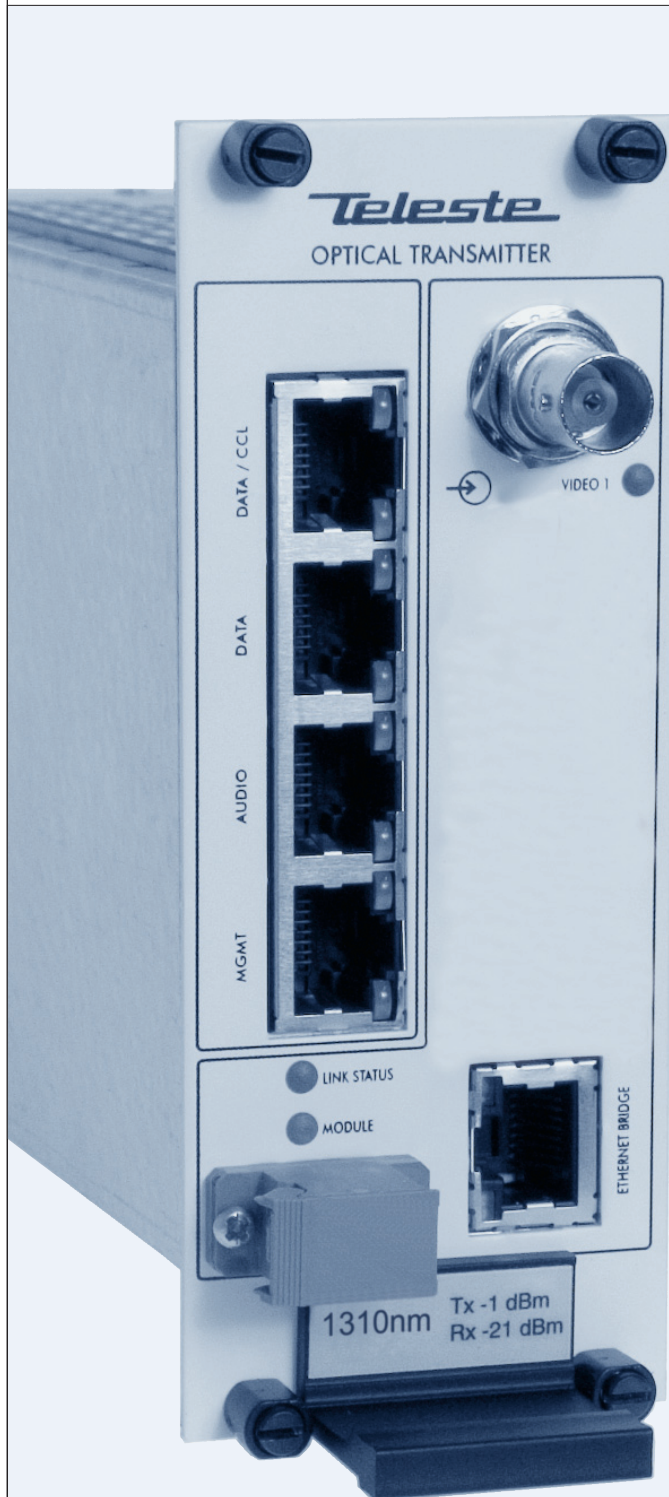
Evolving from the CF0141/441/841 series, the new generation CF0161 video transmitters and receivers bring the CF0 First Mile into an entirely new era of modern fibre optic transmission. In addition to enhanced 10 bit video, multiple data RS-data channels and dual audio capacity, the CF0161 units have a built-in Fast Ethernet Bridge to carry IP services as well. CF0161 units are fully managed and shall offer a remote access over IP via command line interface.

CF0161 units are fully compatible with CF0 platform installation mechanics. Standard CSR series racks and CMA series module adapters are available for easy installations.

As with all CF0 Platform products the units meet all standard EMC and environmental requirements.



CF0161 series video link consist of a transmitter - receiver pair communicating over one singlemode fibre.



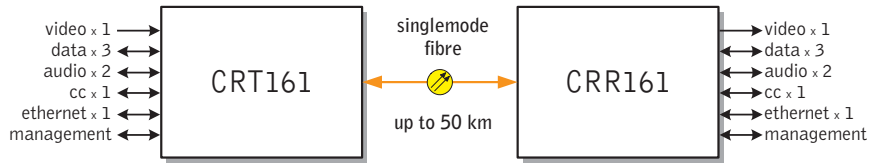
Video Link

CF0161

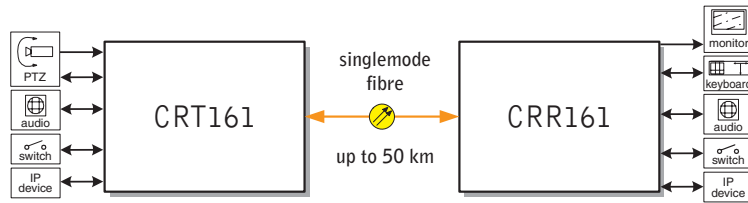
FEATURES AND BENEFITS

- High performance uncompressed real time digital video transmission, SNR 67 dB typical, 10 bit video sampling
- One CVBS (PAL/NTSC) video channel
- 1 x 10/100Base-Tx full duplex Ethernet
- 3 x bi-directional data interfaces, compatible with EIA232/422/485
- User data rate up to 230 kbps / channel
- 2 x bi-directional audio, support unbalanced or balanced wiring
- 1 x bi-directional contact closure
- Transmission on one singlemode fibre up to 50 km
- In-band configuration and management
- Card format applicable both for rack mount and stand-alone installations
- Mechanically compact and ruggedised
- EMC and environmental conformance

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	-1 dBm		Input	dry contact	
Received power	-21 dBm		Output	30V / 1A (relay)	max
Video			Switching frequency	5 Hz	
Number of channels	1	uni-directional	Ethernet Bridge		
Standard	PAL/NTSC	CVBS	Number of ports	1	bi-directional
Impedance	75 ohm		Port type	10/100Base-TX	configurable
Input and output signal level	1 Vp-p		Compliant	IEEE802.3, IEEE802.3U	
Input overload level	1.5 Vp-p	DC component	Management		
Sampling	10 bits / 15.55 MHz		CLI	RS232 and/or TCP/IP	
Bandwidth	6.5 MHz	- 3 dB	General		
C/L gain inequality	3 %		Supply voltage	10.5...14 V DC	regulated
C/L delay inequality	40 ns	max	Current consumption (max)	750 mA	steady state
Differential gain	2 %	max	Dimensions (H x W x D)	3U • 10HP • 190 mm	without CMA
Differential phase	2°	max	Weight	0.725 kg	
S/N ratio	67 dB	unified, weighted	Connectors		
Data			Video	BNC female	
Number of channels	3	bi-directional	Data/audio/cc/mgmt/Ethernet	RJ-45 female	
Data 1 format	RS232	fixed	Optical	SC/APC 8°	
Data 2 & 3 format	RS232/422/485	selectable	Operating temperature	-10...+60 °C	standard model
Data rate	0...230 kbps	all channels		(-34...+74 °C)	enhanced model, TBA)
Dwelltime setting	50...10000 µs	RS485 2-wire	Storage temperature	-30...+70 °C	recommended
Audio			Humidity	0...95 %	non condensing
Number of channels	2 bi-directional	unbalanced / balanced	EMC compatibility	EN61000-6-4, EN50130-4, CE	
Sampling frequency	60.5 kHz				
Sampling resolution	16 bits				
Input impedance	600/10k ohm	selectable			
Output impedance	10 ohm				
Nominal level	0 dBm				
Clipping level	+20 dBm				
Frequency response	0.02...20 kHz	- 3 dB, ref. 1 kHz			
S/N ratio	70 dBqp	CCIR weighted			

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