

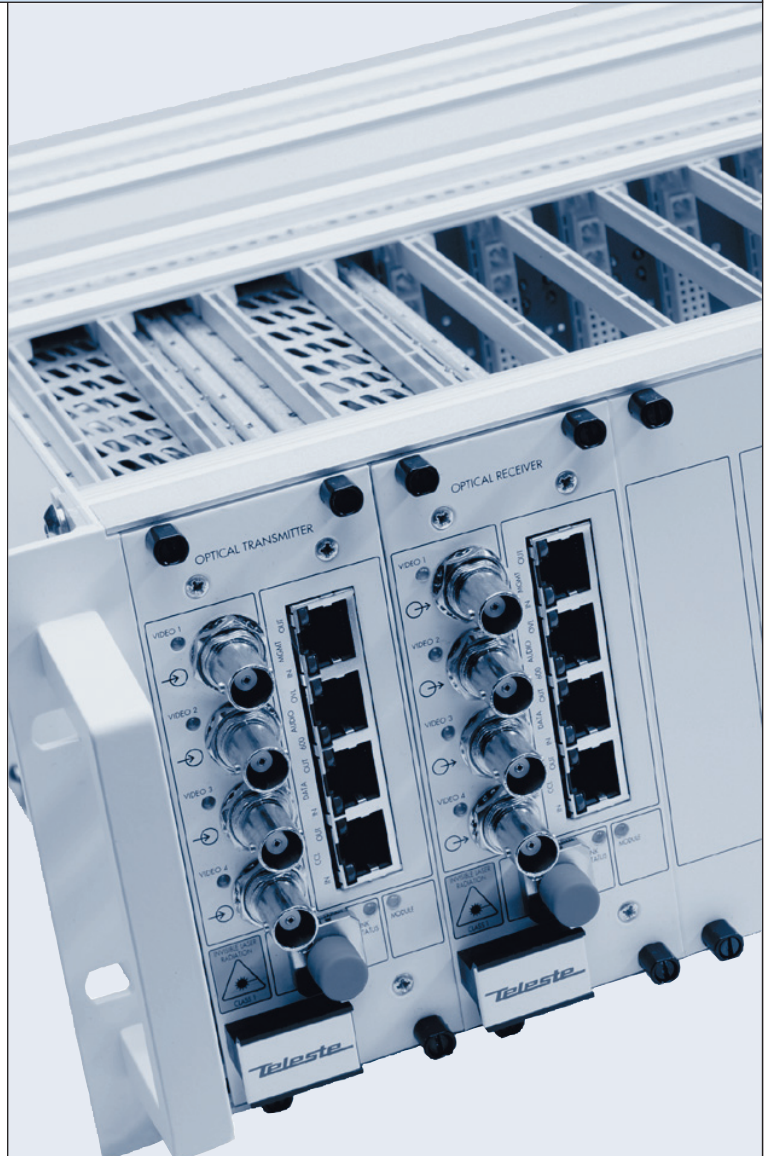
SINGLEMODE 4CH VIDEO DUPLEX AUDIO/DATA/CC LINK

The CF0441 link provides transmission of 4 video channels uni-directionally and 2 data, 1 audio and 1 contact closure channel bi-directionally on 1 singlemode optical fibre at 1310 nm for up to 50 km. 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. As with all CFO platform products the unit meets all international EMC and environmental requirements.



FEATURES AND BENEFITS

- Four Channel Video Multiplexer
- High Performance Uncompressed Digital Video
- PAL/NTSC/CBVS or Y/C (2) Video Input
- Bi-directional Audio, Data & Contact Closure Transmission (CRT <--> CRR)
- Supports All Common Protocols in Same Unit
- Bi-directional on 1 Singlemode Fibre up to 50 km
- True Plug and Play - No Adjustments, Switches, etc.
- In-band Configuration and Management
- Same Units for Rackmount or Standalone
- Mechanically Compact and Ruggedised
- International EMC and Environmental Conformance
- Compatible with all CFO Installation Systems
- CE Approved



Video x 4

Data x 2

Audio x 1

Cc x 1

Mgmt

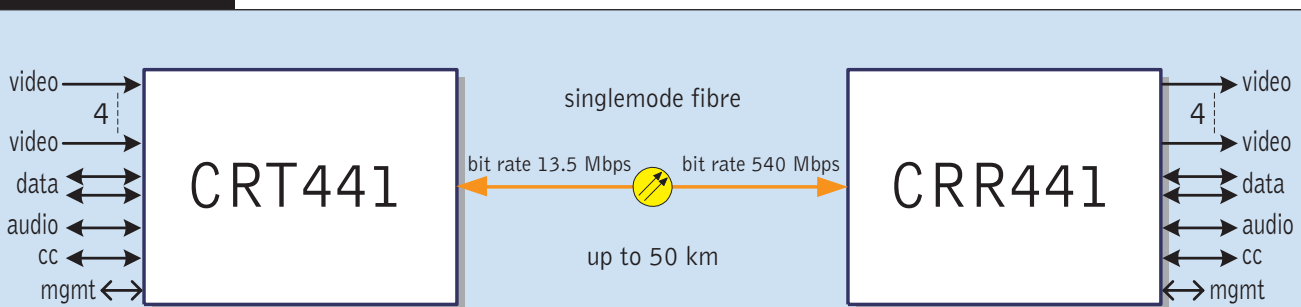
CFO FIRST MILE SERIES - CF0441
SINGLEMODE 4CH VIDEO, DUPLEX AUDIO/DATA/CC LINK



TECHNICAL SPECIFICATIONS (Typical values unless otherwise stated)

PARAMETER	VALUE	UNIT	COMMENTS	PARAMETER	VALUE	UNIT	COMMENTS
Optical				Data			
Output/Input Wavelength	1310	nm		Number of Channels	2		bi-directional
Output Power	-1	dBm	into 9/125 µm fibre	Data 1 Format	RS232		non-selectable
Spectral Width	3	nm		Data Rate	0...120	kbps	
Received Power (Min)	-21	dBm	to meet specifications	Data 2 Formats	RS422/485/TTL		selectable
Received Power (Max)	-1	dBm	to meet specifications	Data Rate	0...160	kbps	
Link Budget	20	dB		Oversampling Rate	1.6	MHz	
Bit Rate (Forward)	540	Mbps	CRT to CRR	Data Jitter	10	%	at max data rate
Bit Rate (Return)	13.5	Mbps	CRR to CRT	Dwelltime Setting	50...10000	µs	RS485
Video				Contact Closure			
Number of Channels	4 / 2		composite / S-video	Number of Channels	1		bi-directional
Sampling Frequency	13.5	MHz		Data Rate	5	Hz	
Sampling Resolution	8	bits		Latency	100	ms	
Source and Load Impedance	75	ohm		Management			
Input and Output Signal Levels	1	Vp-p		Type	command line interface (CLI)		
Input Overload Level	1.5	Vp-p	DC component	Protocol	VT100/102, ANSI		
Insertion Gain	± 10	%	1 V	Data Format	RS232		
Bandwidth	5.5	MHz	3 dB	Communication	CRT <--> CRR bi-directional		
Line Time Distortion	2.5	%	25 µs Bar 'K' rating	Electrical			
Short Time Distortion	2.5	%	2T Pulse 'K' rating	Supply Voltage	10.5...14	V DC	regulated
Short Time Distortion	5	%	2T Pulse to Bar ratio	Current Consumption (Max)	800	mA	steady state
C/L Crosstalk	0.2	%	n/a for S-Video	Mechanical			
Luminance Non Linearity	3.5	%		Dimensions (H x W x D)	3U x 10HP x 190 mm		
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	Mgmt/Audio/Data/CCL	RJ-45 female		
S/N Ratio	60	dB	unified, weighted	Optical	FC/PC		
Audio				Environmental			
Number of Channels	1		bi-directional	Operating Temperature	-10...+55 °C		
Sampling Frequency	52	kHz		Storage Temperature	-30...+70 °C		
Sampling Resolution	16	bits		Humidity	0...95	%	non condensing
Input Impedance	600/>10k	ohm	selectable	Vibration	EN 50130-5: 1995		
Output Impedance	10	ohm		Damp Heat	BS2011 p2.1, test dB, 95%rh 25...40 °C		
Nominal Level	+6	dBm		Electromagnetic Compatibility (EMC)			
Clipping Level	+12	dBm		Emissions	EN 50081-1, EN 55022-B		
Insertion Gain	± 1	dB	0 dBm	Susceptability	EN 50130-4, EN 50082-1		
Frequency Response	0.02...20	kHz	1 dB, ref. 1 kHz				
Harmonic Distortion	0.1	%					
S/N Ratio	70	dBqp	CCIR weighted				

BLOCK DIAGRAM



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