

CFO SERIES - CF0841



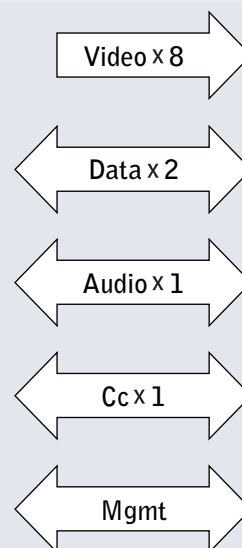
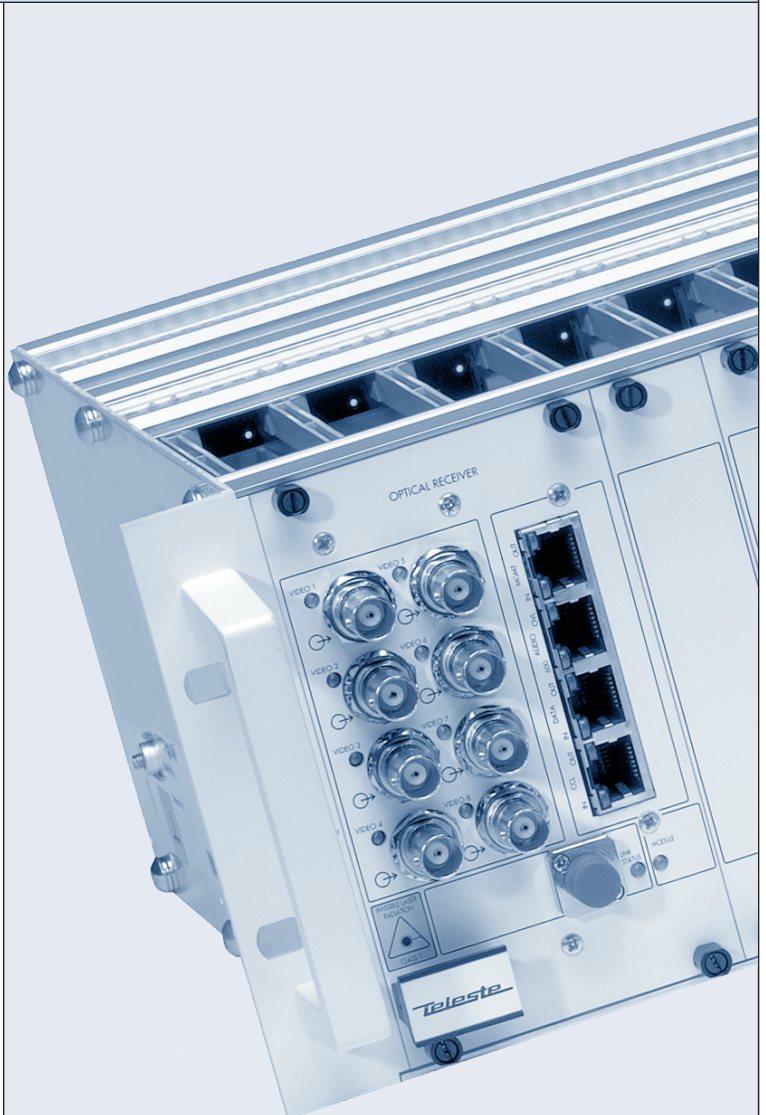
SINGLEMODE 8CH VIDEO DUPLEX AUDIO/DATA/CC LINK

The CF0841 link provides transmission of 8 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 35...40 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

- Eight Channel Video Multiplexer
- High Performance Uncompressed Digital Video
- PAL/NTSC/CBVS or Y/C (4) 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 35...40 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



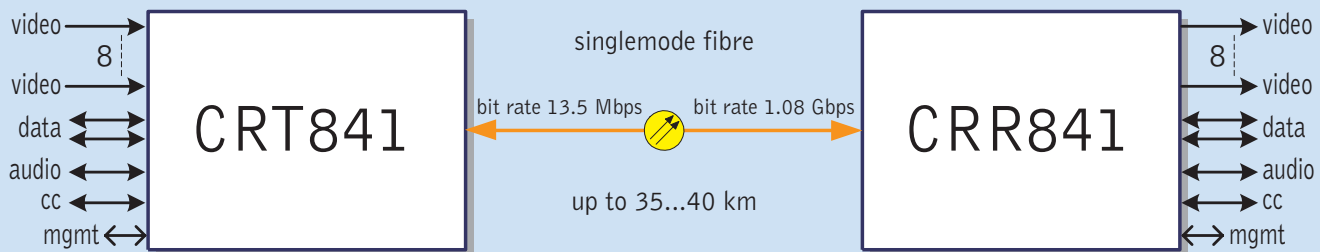
CFO FIRST MILE SERIES - CF0841
SINGLEMODE 8CH VIDEO, DUPLEX AUDIO/DATA/CC LINK



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	1	nm		Data Rate	0...120	kbps	
Received Power (Min)	-15	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	14	dB		Oversampling Rate	1.6	MHz	
Bit Rate (Forward)	1.08	Gbps	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	8 / 4		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			
Return Loss	30	dB	0.1 MHz to 5.5 MHz	Type	command line interface (CLI)		
Input and Output Signal Levels	1	Vp-p		Protocol	VT100/102, ANSI		
Input Overload Level	1.5	Vp-p	DC component	Data Format	RS232		
Insertion Gain	± 10	%	1 V	Communication	CRT <-> CRR		bi-directional
Bandwidth	5.5	MHz	3 dB	Electrical			
Line Time Distortion	2.5	%	25 µs Bar 'K' rating	Supply Voltage	10.5...14	V DC	regulated
Short Time Distortion	2.5	%	2T Pulse 'K' rating	Current Consumption (Max)	850	mA	steady state
Short Time Distortion	5	%	2T Pulse to Bar ratio	Mechanical			
C/L Crosstalk	0.2	%	n/a for S-Video	Dimensions (H x W x D)	3U x 15HP x 190 mm		
Luminance Non Linearity	3.5	%		Weight	0.9 kg		
C/L Gain Inequality	3	%		Connectors			
C/L Delay Inequality	60	ns		Video	BNC female		
Differential Gain	1	%		Mgmt/Audio/Data/CCL	RJ-45 female		
Differential Phase	1	°	n/a for S-Video	Optical	FC/PC		
S/N Ratio	60	dB	unified, weighted	Environmental			
Audio				Operating Temperature	-10...+55	°C	
Number of Channels	1		bi-directional	Storage Temperature	-30...+70	°C	
Sampling Frequency	52	kHz		Humidity	0...95	%	non condensing
Sampling Resolution	16	bits		Vibration	EN 50130-5: 1995		
Input Impedance	600/>10k	ohm	selectable	Damp Heat	BS2011 p2.1, test dB, 95%rh 25...40 °C		
Output Impedance	10	ohm		Electromagnetic Compatibility (EMC)			
Nominal Level	+6	dBm		Emissions	EN 50081-1, EN 55022-B		
Clipping Level	+12	dBm		Susceptability	EN 50130-4, EN 50082-1		
Insertion Gain	± 1	dB	0 dBm				
Frequency Response	0.02...20	kHz	3 dB, ref. 1 kHz				
Harmonic Distortion	0.1	%					
S/N Ratio	70	dBqp	CCIR weighted				

BLOCK DIAGRAM



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CF0841tib_v2
 11/2004