

Product Information - CFO861 & 891

Eight Channel Video Links

For high performance uncompressed real time video transmission. CFO First Mile product consist of fibre optic video modems providing a lossless point-to-point transmission system for variety of CCTV applications.





CFO product family video modems are typically used in point-to-point fibre optic transmission systems. The optical operation on CFO861 is based on 1310/1310 nm bi-directional signalling whereas the CFO891 with 1550/1310 nm WDM operation brings extra gain to link budget. All eight baseband video channels are interference-free and independent on other sub-channels.

CFO861 and CFO891 modems support multiple serial data needs such as PTZ and access control as for instance. The dual audio channels are suitable for

any PA needs but are fit for broadcast purposes as well.

In addition to standard analog interfaces the series can offer a Fast Ethernet port for bridge type network operation. The Ethernet capability offers an easy migration path e.g. for LAN extensions, IP cameras, edge recording, or any IP device on remote CCTV camera locations.

CFO video modems are manageable over TCP/IP connection or locally via a serial port. Units are open to any 3rd party network management system via SNMP.

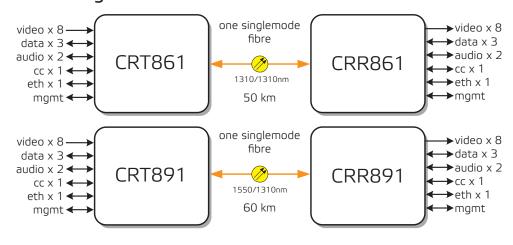
CFO video modems are temperature hardened and well-suited for industrial, traffic and urban monitoring systems. Stand-alone units mounted into CMA adaptors can be equipped with optional CLP line protectors providing a surge/transient protection as well a common mode interference filtering (to all video channels).

Indoor installations can be executed by standard 19" racks powered by robust AC or DC supplies. All CFO units follow a mix-and-match fashion and can share the common installation base.

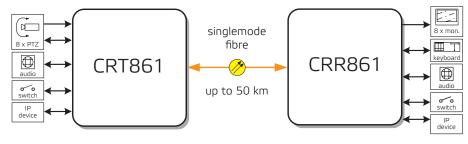
Features

- High performance uncompressed real time digital video transmission, typical SNR 67 dB, 10 bit video sampling
- Eight CVBS (PAL/NTSC) video or four Y/C video channels
- 1 x 10/100Base-Tx Ethernet
- Autonegotion, FD or HD selectable
- 3 x bi-directional data interfaces, compatible with RS232/422/485
- User data rate up to 230 kbps / channel
- 2 x bi-directional audio, supports unbalanced or balanced wiring
- 1 x bi-directional contact closure I/O
- 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 diagrams



Application example



Technical specifications (Typical values unless otherwise stated)

Optical			Contact Closure		
Wavelength	1310/1310 nm 1550/1310 nm	CFO861 bi-directional	Number of channels	1	bi-directional
Output power	-1 dBm +1 dBm	CFO861 CFO891	Input	dry contact	open/close, max loop R 120 ohm
Received power	-21 dBm	CF0861 min.	Output	relay	max 30 V/1A switching
Received power	-23 dBm	CFO891 min.	Data rate	5 Hz	max
Video			Ethernet Bridge		
Number of channels	8	uni-directional	Number of ports	1	bi-directional
Standard	PAL/NTSC or Y/C	CVBS	Port type	10/100Base-TX	configurable
Input and output signal levels	1 Vp-p		Compliant	IEEE802.3, IEEE802.3U	
Input overload level	1.5 Vp-p	DC component	Thruput	99 Mbps	max
Impedance	75 ohm		Management		
Sampling	10 bits / 15.55 MHz		Command Line Interface	RS-232 and/or TCP/IP te	rminal
Bandwidth	6.5 MHz	- 3 dB	SNMP	v2, MIB-II, remote via network	
C/L gain inequality	3 %		General		
C/L delay inequality	40 ns	max	General		
Differential gain	2 %	max	Supply voltage	10.514 V DC	regulated
Differential phase	20	max	Current consumption (max)	750 mA	steady state
S/N ratio	67 dB	unified, weighted	Dimensions (H x W x D)	3U ● 15HP ● 190 mm	without CMA
Data			Weight Connectors	1.0 kg	
Number of channels	3	bi-directional	Video	BNC female	
Data 1 & 2 format	RS232/422/485	selectable	Data/audio/cc/mgmt/Ethernet	RJ-45 female	
Data 3 format	RS232	fixed	Optical	SC/APC 8º	angle-polished only
Data rate	0230 kbps	all channels	Environmental		3.2 p 2200 0,
Dwelltime setting	5010000 μs	RS485 2-wire	Operating temperature	-34+74 °C	
Audio			Storage temperature	-34+74 °C	
Number of channels	2 bi-directional	unbalanced / balanced	Humidity	095 %	non condensing
		unualanceu / Dalanceu	EMC compatibility	EN61000-6-4, EN50130	
Sampling frequency	60.5 kHz			FCC CFR 47 Part 15 (sul	bpart B, class A)
Sampling resolution	16 bits 600/10k ohm	selectable	IP Housing	IP20	
Input impedance Output impedance	10 ohm	Selectable	Notes		
Nominal level	0 dBm		Class 1M Laser Product		
Clipping level	+20 dBm		Class Tivi Lasel Pluduct		
	+20 dBm 0.0220 kHz	3 dB rof 1 kU-			
Frequency response		- 3 dB, ref. 1 kHz			
S/N ratio	70 dBqp	CCIR weighted	Copyright © 2012 Teleste Corporation. All r	ights reserved. TELESTE is a registe	ered trademark of Teleste Corpora