

Product Information - CEV-4ch CWDM uni-directional

Four channel video modem

For high performance uncompressed real time video transmission. CEV is a common nominator for next generation video modems in the CFO OP-X CWDM platform.









New CEV video modems are basic building blocks for multi-channel video transmission system providing uni-directional transmission of 4 zero-delay video channels together with uni-directional audio, data and contact closure channels over one singlemode fibre.

Evolving from the CVM series, the new generation CEV video modems bring

the CFO system into an entirely new era of modern fibre optic transmission. In addition to enhanced 10 bit video, multiple data RS-data channels, dual audio capacity and contact closure channel are available to same transmission direction as video.

CEV Video modems are fully compatible with CFO platform mechanics. Stand-

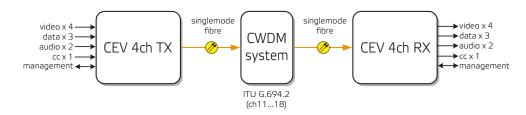
ard CSR series racks and CMA series module adapters are available for easy installations.

As with all CFO platform products these specific models do meet all typical EMC as well as other environmental and manufacturing related requirements.

Features

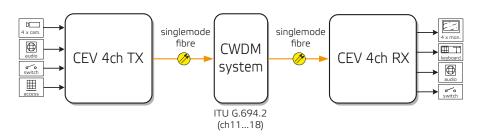
- High performance uncompressed real time digital video transmission, SNR 67 dB typical, 10 bit video sampling
- Four CVBS (PAL/NTSC) or two Y/C video channels
- 3 x uni-directional data interfaces, compatible with EIA232/422 (simplex)
- User data rate up to 230 kbps / channel
- 2 x uni-directional audio, support unbalanced or balanced wiring
- 1 x uni-directional contact closure
- Complies to ITU G.694.2 CWDM grid from ch 11 to ch 18
- Card format applicable both for rack mount and stand-alone installations
- Mechanically compact and ruggedised
- EMC and environmental conformance
- CE approved

Block diagrams



Note! All channels to same direction as video.

Application example



Technical specifications (Typical values unless otherwise stated)

Optical			Contact Closure		
CWDM wavelengths Output power Received power	1470 nm1610 nm -1 dBm -4 dBm -24 dBm	ITU G.694.2 * max min	Number of channels Input Output Switching frequency	1 dry contact 30V / 1A (relay) 5 Hz	uni-directional
Video			Management		
Number of channels Standard Input and output signal levels	4 PAL/NTSC or Y/C 1 Vp-p	uni-directional CVBS	CLI SNMP General	RS232 and/or TCP/IP V2, MIB II	
Input overload level Impedance Sampling Bandwidth	1.5 Vp-p 75 ohm 10 bits / 15.55 MHz 6.5 MHz	DC component	Supply voltage Current consumption (max) Dimensions (H x W x D)	10.514 V DC 750 mA 3U ● 10HP ● 190 mm	regulated steady state without CMA
C/L gain inequality C/L delay inequality Differential gain Differential phase	3 % 40 ns 2 % 20	max max max	Weight Connectors Video Data/audio/cc/mgmt	0.770 kg BNC female RJ-45 female	mulder Com.
S/N ratio Data	67 dB	unified, weighted	Optical Operating temperature Storage temperature	SC/APC 8 ^o -34+74 ^o C -34+74 ^o C	
Number of channels Data 1 & 2 format	3 RS232/422	uni-directional / simplex selectable	Humidity EMC compatibility	095 % EN61000-6-4, EN50130-4, CE	non condensing
Data 3 format Data rate	RS232 0230 kbps	fixed all channels	Notes * channel to be specified when	n ordering	
Audio Number of channels Sampling frequency Sampling resolution Input impedance Output impedance Nominal level	2 uni-directional 60.5 kHz 16 bits 600/10k ohm 10 ohm 0 dBm	unbalanced / balanced selectable	Class 1M Laser Product		
Clipping level Frequency response S/N ratio	+20 dBm 0.0220 kHz 70 dBqp	- 3 dB, ref. 1 kHz CCIR weighted			
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