EQUIPOS DE TELECOMUNICACION
OPTOELECTRONICOS, S.A.

Fibre optic 10-bit digital video multichannel transmission

4 video channels and auxiliary channels optical receiver, D452 model

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GENERAL FEATURES		
Type of transmission	Digitised video (10-bit resolution) without compression	
Received video signals	4 x NTSC / PAL	
Bi-directional auxiliary channels	2 x digital audio (RCA type), 2 x asynchronous data 2 x ON/OFF contacts, 2 x configurable expansion channels	
OPTICAL PARAMETERS		
Optical receiver / emitter	PIN-TIA / DFB laser	
input / output wavelength (see note 1)	1,310 nm / 1,550 nm	
Number and type of optical fibre	1 x Singlemode (9/125 μm) (Optionally multimode)	
Output optical power (see note 2)	≥ -4 dBm	
Input sensitivity (see note 2)	≤ -24 dBm (BER $<10^{-9}$ in all the operating range)	
VIDEO ELECTRICAL PARAMETERS		
Output amplitude / impedance (see note 1)	1 Vpp / 75 Ω	
A/D converter resolution	10 bit	
Differential gain / phase (see notes 1 and 2)	< 2.0 % / < 2.0 ° (peak to peak)	
Bandwidth (see notes 1 and 2)	> 5.8 MHz	
Signal to noise ratio (weighed) (see notes 1 and 2)	> 67 dB	
AUXILIARY CHANNEL PARAMETERS		
Type of audio signal	20 Hz – 20 kHz, 0 dBm nom., +10 dBm max.	
Resolution / sampling frequency	24 bits / > 55 kHz	
Signal to noise ratio (weighed)	> 80 dB	
Input / output impedance (see note 1)	600 Ω / low impedance (optionally high / 600 Ω)	
Type of data signal (user configurable)	RS-232, RS-422, RS-485 (2 or 4 w)	
Maximum binary rate	> 128 kbits/s (RS-232/422), > 19.2 kbit/s (RS-485)	
Type of input / output contact	Active by earth closing / dry contact	
POWER PARAMETERS		
Power requirements	12 Vdc / Internal (stand-alone / housing option)	
Consumption (see note 1)	< 8.0 W	
MECHANICAL PARAMETERS		
Available formats	Stand-alone / Plug-in module for 19” rack 3U high	
Dimensions	160 x 130 x 65 mm box (stand-alone version) 10 TE module, 160 mm deep (without connectors)	
Optical / video / auxiliary channels connector	1 x FC/PC / 4 x BNC / 6 x RJ-45	
ENVIRONMENTAL CONDITIONS		
Operating temperature range	-40 °C to +74 °C	
Humidity range	0 to 95% without condensation	
INDICATORS AND ALARMS		
Unit in operation	Green	ON
Absence of input optical power	Red	APO
No video at D451 input	4 x Red	NV1...NV4
DATA1/2	2 x Green	1T, 1R, 2T, 2R
	T/R	Data transmission / reception
AUD/CON	2 x Red	OV1...OV2
	Red	Excessive input signal
	2 x Green	CT1...CT2
	Green	Output relay 1 / 2 closed
Each auxiliary channel AUX1/2	2 x Amber	1A, 1B...2A, 2B
Audio	A/B	Excessive input signal
Data	A/B	Data transmission / reception
Contacts	A/B	Output relay 1 / 2 closed

Note 1.- Typical values, as a production average

Note 2.- Actual values are given in the test sheet. These values are measured according to the test procedure for this device

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Five Years 5 Warranty