

Fibre optic 10-bit digital video multichannel transmission



**4 video channels optical receiver,
D442 model**

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GENERAL FEATURES

Type of transmission	Digitised video (10-bit resolution) without compression
Received video signals	4 x NTSC / PAL

OPTICAL PARAMETERS

Optical receiver	PIN-TIA
Input wavelength (see note 1)	1,310 nm ... 1,550 nm
Number and type of optical fibre	1 x Singlemode (9/125 μ m) (optionally multimode)
Sensitivity (see notes 2 and 3)	≥ -24 dBm

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)	$< 2.0 \%$ / $< 2.0^\circ$ (peak to peak)
Bandwidth (see notes 1 and 2)	> 5.8 MHz
Signal to noise ratio (weighed) (see notes 1 and 2)	> 67 dB

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 connector	1 x FC/PC / 4 x BNC

ENVIRONMENTAL CONDITIONS

Operating temperature range	-40°C to $+74^\circ\text{C}$
Humidity range	0 to 95% without condensation

INDICATORS AND ALARMS (see note 4)

Unit in operation	Green	ON
Absence of input optical power	Red	APO
No video at D441 input	4 x Red	NV1...NV4

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

Note 3.- Value guaranteed for a BER $< 10^{-9}$ in all the operating range

Note 4.- LED's on the front side

EQUIPOS DE TELECOMUNICACIÓN OPTOELECTRÓNICOS, S.A.

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