

Fibre optic asynchronous data transmission system



Asynchronous data optical repeater, N555 model

OPTICAL PARAMETERS	
Light source (see note 1)	Low power laser (A and B versions) LED (C, CM and D versions)
Optical detector (see note 1)	PIN
Wavelength (see note 2)	850 nm (C and CM versions) 1,310 nm (A and D versions) 1,550 nm (B version)
Fibre type	Singlemode (9/125 μ m) (A and B versions) Multimode (50/125 or 62.5/125 μ m) (C, CM and D versions)
Stabilisation	In optical power and modulation index (A and B versions)
Optical power (peak) (see notes 3, 4 and 5)	\geq -11 dBm (A and B versions) \geq -16 dBm (50/125 μ m), \geq -13 dBm (62.5/125 μ m) (C version) \geq -19 dBm (50/125 μ m), \geq -16 dBm (62.5/125 μ m) (CM version) \geq -17 dBm (50/125 μ m), \geq -12 dBm (62.5/125 μ m) (D version)
Sensitivity (see notes 3 and 6)	\leq - 36 dBm
ELECTRICAL PARAMETERS	
Electrical interface (user configurable)	RS-232, RS-422 and RS-485
Binary rate	Up to 64 Kbit/s asynchronous
Operation mode	Full duplex in RS-232, RS-422, RS-485 (4w) Half duplex in RS-485 (2w)
Electrical configuration	DCE
POWER PARAMETERS	
Power requirements	Internal of P40W housing
Power consumption (see note 2)	< 2 W
MECHANICAL PARAMETERS	
Format	Plug-in module for 19" rack and 3U height
Dimensions	5 TE x 3U x 160 mm (without connectors)
Optical fibre connector	FC/PC (A and B versions) ST (C, CM and D versions)
Electrical signal connector	Sub D9 (female)
ENVIRONMENTAL CONDITIONS	
Operating temperature range	-10 °C to +50 °C
Humidity range	0 to 95% without condensation
INDICATORS (see note 7)	
Unit in operation	Green ON
Transmitted data	Green EC
Received data	Green RC

Note 1.- There are only transmitter (N551/ T) or only receiver (N551/ R) versions

Note 2.- Typical values as a production average

Note 3.- Actual values are given in the test sheet. These values are measured according to the test procedure for this device

Note 4.- Optionally \geq -3 dBm with N1Z0 kit (only for singlemode fibre). 1,310 or 1,550 nm available

Note 5.- Consult with manufacturer or distributor for higher optical power units

Note 6.- Value guaranteed for a BER < 10^{-9} at all operating range

Note 7.- LED's in the front side

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