DUXNET

PRODUCT DATASHEET

DUX1000LX-40D & LX-40DI

SFP, 1.0625/1.25Gbps, 1310nm, SM, DDM, 22dB, 40km, C-temp & I-temp

OVERVIEW

The DUX1000LX-40D is a reliable 1310 nm SFP transceiver designed for SingleMode fiber applications, delivering dependable connectivity for Gigabit Ethernet (GbE) and 1G Fibre Channel (1G FC) services. Engineered for performance and reach, it supports transmission distances of up to 40 kilometers, making it ideal for both enterprise and carrier-grade networks.

Featuring digital diagnostics monitoring (DDM) via a 2-wire serial interface in compliance with the SFF-8472 specification, the DUX1000LX-40D enables real-time monitoring of key optical parameters for simplified network management and maintenance.

For deployment flexibility, the transceiver is available in multiple temperature range options, including an industrial-grade version rated from -40°C to +85°C (-40°F to +185°F) — ensuring reliable operation in demanding environments.

TECHNICAL DATA

Parameter	Value
Technology	Grey SFP
Transmission media	SM (2x LC)
Typical reach	40km
Nominal wavelength	1x 1310nm
Bit rate support	1.0625Gbps / 1.25Gbps
Protocol support	GbE
	1G FC
Power budget	6 – 22dB
Power consumption	< 1.0W
Operating temperature	0°C to +70°C
	-40°C to +85°C (-I)
Storage temperature	-40°C to +85°C
Safety/regulatory compliance	TUV/UL/FDA
	RoHS compliance

Parameter	Value
Transmitter data	
Output power	Min: -2.0dBm [1]
	Max: +3.0dBm [1]
Transmit wavelength	1260 – 1360nm
Receiver data	
Minimum input power	-24.0dBm [1] [2]
Overload (max power)	-3.0dBm [1]
Wavelength range	1260 – 1600nm
LOS assert	Min -38dBm
LOS de-assert	Max -25dBm
LOS hysteresis	Min 0.5dB
DDM	Yes
MSA compliance	SFF-8431, -8432, -8472
DUX1000LX-40D	SFP, 1G Ethernet, 1G FC, SM 1310nm, 40km, 12dB, LC
DUX1000LX-40DI	SFP, 1G Ethernet, 1G FC, SM 1310nm, 40km, 12dB, I-temp, LC

[1] Average power.
[2] @ 1.25Gbps, BER≤1x10^{-12}, PRBS 2^{7}-1, back-to-back.

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