

TSFP10GB 10Gb/s SFP+ Optical Transceiver

Article No.: 308021



The TRIAX TSFP10GB is a high-performance 10 Gigabit SFP+ optical transceiver designed for demanding data communication applications over single-mode fibre. Packaged in a compact SFP+ form factor with an LC connector, it is ideal for modern network infrastructures requiring high bandwidth, reliability, and low power consumption.

Operating at a wavelength of 1310 nm, the module incorporates a DFB laser together with a PIN photodetector, ensuring stable and high-quality signal transmission over distances of up to 10km on single-mode fibre. Its optimised design keeps power dissipation below 1W, supporting efficient thermal management in dense networking environments.

The TSFP10GB features ensure safe deployment in professional and commercial installations.

Features:

- SFP+ package with LC connector
- 1310nm DFB Laser and PIN photo detector
- Up to 10km transmission on Single Mode Fibre
- Power dissipation < 1W
- LVPECL compatible data input/output interface
- Low EMI and excellent ESD protection
- Laser safety standard IEC-60825 compliant

Technical specifications:

Model		TSFP10GB		
Art. Number		308021		
EAN	5061038089158			
	Minimum	Typical	Maximum	Units
Supply Voltage	0	-	+3.6	V
Operating Relative Humidity	0	-	85	%
Operation Environment				
Supply Voltage	3.15		3.45	V
Operating temperature	0		70	°C
Power Dissipation			1	W
Data Rate		10.3125		Mbps
Optical Characteristics - Transmitter Section				
Centre Wavelength	1290	1310	1330	nm
Average Output Power	-5	-	+0.5	dBm
Relative Intensity Noise			-128	dB/Hz
Optical Characteristics - Receiver Section				
Centre Wavelength		1310		nm
Receiver Sensitivity			-14	dBm
Receiver Overload	+0.5			dBm
Return Loss	12			dB
Electrical Characteristics - Transmitter Section				
Input Differential Impedance	90	100	110	Ohm
Electrical Characteristics - Receiver Section				
Output differential impedance		100		Ohm
Mechanical				
Dimensions	56.5 x 13.4 x 8.5mm			mm

Mechanical aspect:

