

1.25Gbps Low Power Consumption CSFP (Compact BiDi SFP Transceiver)

CLCSFPGE131420D

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Product Features

- Up to 1.25Gbps data links
- 20km with on 9/125μm SMF
- 1310nm PIN or 1490nm DFB laser transmitter, PIN receiver
- Duplex LC Connector
- Two Bi-Directional transceivers in one SFP package
- Single +3.3V power supply
- Temperature & Power Consumption: <1.5W
- RoHS

Functional Characteristics (Optical)

The following tables list the performance specifications for the various functional blocks of the integrated optical transceiver module.

Table 1 – Transmitter Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit
Centre Wavelength CLCSFPGE131420D	λ_c	1300	1310	1320	nm
Centre Wavelength CLCSFPGE141320D	λ_c	1480	1490	1500	nm
Spectral Width (-20)	$\Delta\lambda$	-	-	1	nm
Optical Output Power	P _o	-9	-	-3	dBm
Optical Extinction Ratio	ER	9	-	-	dB
Rise/Fall Time (20%-80%)	T _r /T _f	-	-	260	ps

Note 1: Average launch power, each lane (min) is informative and not the principal indicator of signal strength

Note 2: Transmitter reflectance is defined looking into the transmitt



Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit
Centre Wavelength CLCSFPGE131420D	λ_c	1470	1490	1500	nm
Centre Wavelength CLCSFPGE141320D	λ_c	1260	1310	1360	nm
Receiver Sensitivity	PIN-MIN	-	-	-28	dBm
Receiver Overload	PIN-MAX	3	-	-	dBm
LOS De-Assert	PD	-	-	-32	dBm
LOS Assert	PA	-34	-	-	dBm
LOS Hysteresis	PA- PD	0.5	-	-	dB

Note 1: Measured with conformance test signal at TP3 for the BER= 6.4x10⁻⁵.

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	DDM	Wave	Fiber Type	Dist.	Temp.	Optical Interface
CLCSFPGE131420D	1.25Gbps	yes	Tx:1310nm Rx:1490nm	SMF	20km	-10~70℃	CSFP LC
CLCSFPGE141320D	1.25Gbps	yes	Tx:1490nm Rx:1310nm	SMF	20km	-10~70℃	CSFP LC

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