25Gbps SFP28 BIDI 60km Transceiver
CLSFP25GBD3160

Product Features:

- Hot pluggable SFP28 form-factor
- Data rate up to 25.78Gb/s
- Tx1290nm/Rx1310nm
- Uncooled DFB transmitter
- High sensitivity APD receiver
- Transmission distance up to 60km
- Operating temperature: 0°C to 70°C
- Built-in digital diagnostic function
- Duplex LC Connector
- Single +3.3V power supply
- Power consumption < 1.5W
- RoHS-6 compliant (lead-free)

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	Notes
Wavelength	λt	1287	-	1301	nm	
Output Spectral Width (-20dB)	Δλ	-	-	1	nm	
Side Mode Suppression Ratio	SMSR	30	-	-	dB	
Average Optical Power	Po	0	-	+6	dBm	1
Extinction Ratio	ER	4	-	-	dB	
Transmitter and dispersion penalty	TDP	-	-	2.7	dB	
RIN20OMA	RIN	-	-	-130	dB/Hz	

Note 1: Average power figures are informative only, per IEEE 802.3cc.
Note 2: Conditions of stressed receiver tests per IEEE 802.3cc. PRBS 2^31-1, 5E-5 BER.

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Wavelength	λr	1306	-	1322	nm	
Receiver Sensitivity (OMA)	SEN	-	-	-20	dBm	2
Stressed Receiver Sensitivity (OMA)	SEN2	-	-	-17	dBm	2
Overload	Sat	-4	-	-	dBm	
Rx_LOS Assert	LOSA	-25	-	-	dBm	

Rx_LOS De-assert	LOSD	-	-	-23	dBm	
Rx_LOS Hysteresis	LOSH	0.5	-	5	dB	
Receiver Reflectance	RRF	-	-	-26	dB	

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Tx/Rx Laser	Fiber Type	Distance	Optical Interface	Temp	DDM
CLSFP25GBD3160	25.78Gbps	1290nm/1310nm	SMF	60km	LC	0~70 °C	Y

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