32G FC BiDi 20km SFP+ Transceiver

CLSFP32GBD20-33

Product Features:

- Up to 28.05 Gb/s bi-directional data links
- 32G FC MSA SFF-8432/8472
- Hot-pluggable SFP+ footprint
- Built-in digital diagnostic functions
- 1330nm DFB laser transmitter + 1270nm PIN-TIA receiver
- Simplex LC connector
- RoHS compliant
- Up to 20km on 9/125μm SMF
- Single 3.3V power supply
- Operating temperature range:0°C to 70°C

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	Typ	Max	Unit	Ref.
Average Output Power	POUT	-3		+4	dBm	1, 2
Optical Wavelength	Wave	1320	1330	1340	nm	
Spectral Width (-20dB)	σ			1	nm	
Side Mode Suppression Ratio	SMSR	30			dB	
Optical Modulation Amplitude	OMA	-3		+4	dBm	
Transmitter Dispersion Penalty @ 8.5 Gb/s 14.025Gb/s 28.05Gb/s	TDP			4 3.5 2.5	dB	
Extinction Ratio	ER	4			dB	
Relative Intensity Noise	RIN			-130	dB/Hz	

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min	Typ	Max	Unit	Ref.
Optical Wavelength	Wave	1260	1270	1280	nm	
Unstressed Receiver OMA Sensitivity 8.5 Gb/s 14.025Gb/s 28.05Gb/s	Rx SENS			-14.1 -12.1 -10.9	dBm	3
Receiver Optical Modulation Amplitude	RxMAX			2	dBm	4
Stress Receiver Sensitivity				-9.5	dBm	

Optical Return Loss 8.5Gb/s & 14.025Gb/s 28.05Gb/s		12 26			dB	
LOS De-Assert	LOSD			-17	dBm	
LOS Assert	LOSA	-30			dBm	
LOS Hysteresis		0.5			dB	
Link Parameters						
Channel IL		5		13.2	dB	
Allocation of Penalties				2.7	dB	
Total Power Budget (Maximum TDP)				15.9	dB	

Ordering Information

Table 3 - Ordering Information

Part No.	Application	Data Rate	Laser	Fiber Type
CLSFP32GBD20-33	FC 8/16/32G 20km	28Gbps Max	T 1330nm/ R 1270nm	Single Mode Fiber

CONTACT:

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