

800G OSFP Flat Top 2DR4 500m

CL800GOSFP2DR4-FLT

Product Features:

- Compliant with IEEE 802.3cu-2021:
 - 8x100GBASE-DR optical interface
- Compliant with IEEE 802.3ck-2022:
 - 8x100GAUI-1 C2M electrical interface
- Compliant with OSFP MSA HW Rev 5.0 Type 2
- Compliant with CMIS Rev 5.0
- Case operating temperature 0°C to 70°C
- Two wire serial Interface with digital diagnostic monitoring
- Complies with EU Directive 2011/65/EU (RoHS compliant)
- Class 1 Laser

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	λ_C	1304.5	1311	1317.5	nm	
Side Mode Suppression Ratio	SMSR	30	-	-	dB	
Average Launch Power, each lane	AOPL	-2.9	-	4.0	dBm	1
Outer Optical Modulation Amplitude (OMA _{outer}), each Lane	TOMA	-0.8	-	4.2	dBm	
Launch power in OMA _{outer} minus TDECQ, each lane for extinction ratio ≥ 5 dB for extinction ratio < 5 dB	TOMA-TDECQ	-2.2 -1.9	-	-	dBm	
Transmitter and Dispersion Eye Closure for PAM4 (TDECQ), each lane	TDECQ	-	-	3.4	dB	
TDECQ – 10log ₁₀ (C _{eq}), each lane	C _{eq}	-	-	3.4	dB	
Average Launch Power of OFF Transmitter, each lane	TOFF	-	-	-15	dBm	
Extinction Ratio	ER	3.5	-	-	dB	
Transmitter transition time	T _r			17	ps	
RIN _{15.5OMA}	RIN	-	-	-136	dB/Hz	
Optical return loss tolerance	ORL	-	-	15.5	dB	



Transmitter Reflectance	TR	-	-	-26	dB	2
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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 transmitter

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Wavelength	λ_{C0}	1304.5	1311	1317.5	nm	
Damage Threshold, each Lane	AOPD	5	-	-	dBm	
Average Receive Power, each Lane	AOPR	-5.9	-	4	dBm	
Receive Power (OMA _{outer}), each Lane	OMAR	-	-	4.2	dBm	
Receiver Reflectance	RR	-	-	-26	dB	
Receiver Sensitivity (OMA _{outer}), each Lane	SOMA	-	-	Max(-3.9, SECQ - 5.3)	dBm	1
Stressed Receiver Sensitivity (OMA _{outer}), each Lane	SRS	-	-	-1.9	dBm	2
Conditions of stressed receiver sensitivity test						
Stressed eye closure for PAM4 (SECQ), lane under test	SECQ	-	3.4	-	dB	
SECQ - 10log ₁₀ (Ceq), lane under test	Ceq	-	-	3.4	dB	

Note 1: Receiver sensitivity (OMA_{outer}), each lane (max) is informative and is defined for a transmitter with a value of SECQ up to 3.4 dB.

Note 2: Measured with conformance test signal at TP3 for the BER = 2.4x10⁻⁴

Ordering Information

Table 3 - Ordering Information

Part No.	Application	Data Rate	Laser Source	Fiber Type
CL800GOSFP2DR4-FLT	8x100GBASE-DR 2x400GBASE-DR4	850Gb/s	EML	Single Mode Fiber

CONTACT:

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