400G OSFP Close Top DR4 500m
CL400GOSFPDR4-CLT

Product Features:

- Compliant with IEEE 802.3-2022:
  - 400GBASE-DR4 optical interface
- Compliant with IEEE 802.3ck-2022:
  - 400GAUI-4/200GAUI-2/100GAUI-1 C2M electrical interface
- Compliant with OSFP MSA Specification Rev 5.0
- RHS housing(with the longer body:107.8mm) with MPO-12/APC receptacle
- 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	λC	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 (OMAouter), each Lane	TOMA	-0.8	-	4.2	dBm	
Launch power in OMAouter minus TDECQ, each lane	TOMA-TDECQ	-2.2	-	-	dBm	
Transmitter and Dispersion Eye Closure for PAM4 (TDECQ), each lane	TDECQ	-	-	3.4	dB	
TDECQ – 10log10(Ceq), each lane	-	-	-	3.4	dB	
Average Launch Power of OFF Transmitter, each lane	TOFF	-	-	-15	dBm	
Extinction Ratio	ER	3.5	-	-	dB	
Transmitter transition time	Tr			17	ps	
RIN21.4OMA	RIN	-	-	-136	dB/Hz	
Optical return loss tolerance	ORL	-	-	21.4	dB	
Transmitter Reflectance	TR	-	-	-26	dB	2

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 transmittrer

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Wavelength	λC0	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 (OMAouter), each Lane	OMAR	-	-	4.2	dBm	
Receiver Reflectance	RR	-	-	-26	dB	
Receiver Sensitivity (OMAouter), each Lane	SOMA	-	-	Max(–3.9, SECQ – 5.3)	dBm	1
Stressed Receiver Sensitivity (OMAouter), 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 – 10log10(Ceq), lane under test	Ceq	-	-	3.4	dB	
OMAouter of each aggressor lane	-	-	4.2	-	dBm	

Note 1: Receiver sensitivity (OMAouter), 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
CL400GOSFPDR4-CLT	400GBASE-DR4	425Gb/s	EML	Single Mode Fiber

CONTACT:

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