1.25Gbps/10.31Gbps/25.78Gbps SFP+ 100m Transceiver
CLSFP1G10G25GSR

Product Features:

- Supports 1G/10G/25GBASE-SR(10Gb/s/25Gb/s);
- Maximum link length of 70m on OM3 MMF and 100m on OM4 MMF;
- 850nm VCSEL laser and PIN photo-detector;
- High speed I/O electrical interface (25GAUI);
- I2C interface with integrated Digital Diagnostic monitoring;
- SFP28 MSA package with duplex LC connector;
- Maximum power consumption 1.0W
- Single +3.3V power supply;
- Operating case temperature: Refer to Order info.
- Compliant to IEEE 802.3cc Draft3.0, SFF-8402, SFF-8432, SFF-8472;
- Complies with EU Directive 2011/65/EU (RoHS 6/6)

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
Center Wavelength	λ	840	850	860	nm	
Average Launch Power		-5	-	3	dBm	1
Optical Modulation Amplitude	OMA	-5	-	3	dBm	1
Average Output Power (Laser Turn off)	Poff	-	-	-30	dBm	
Extinction Ratio	ER	4	-	-	dB	
Transmitter and dispersion penalty (TDP)	TDP	-	-	4.3	dB	
Optical Return Loss Tolerance	ORLT	-	-	12	dB	
Optical Eye Mask	Compliant with IEEE 802.3cc Draft 3.0					

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Center Wavelength	λ0	840	850	860	nm	
Average Rx Power		-10.5	-	2.4	dBm	2
25G Receiver sensitivity (OMA)	Rx Sense	-8.5	-	-	dBm	2
10G Receiver sensitivity (OMA)	Rx Sense	-10	-	-	dBm	2
1G Receiver sensitivity (OMA)	Rx Sense	-15	-	-	dBm	
Receiver Overload	PIN-OL	3.4	-	-	dBm	
Reflectance	Ref	-	-	-12	dB	
LOS Assert per lane	LOSA	-30	-	-	dBm	

LOS De-assert	LOSD	-	-	-17	dBm	
LOS Hysteresis	LOSH	0.5	-	4	dB	

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Laser	Fiber Type	Distance	Optical Interface	Temp	DDMI
CLSFP1G10G25GSR	10.31Gbps/ 25.78Gbps 1.25Gbps	850nm	MMF	100m	2x LC	0~70 °C	Y

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