

Optical Module AS-SFP-LX-40-D GE SFP single-mode (40Km, 1310nm, LC, DDM)

PRODUCT FEATURES

- Duplex LC receptacle optical interface compliant
- 1.25 Gb/s Max Data Rate
- Single +3.3V power supply
- DDM function implemented
- **Hot-pluggable**
- Receiver Loss of Signal Output
- AC coupling of PECL signals
- Serial ID module on MOD(O-2)
- International Class 1 laser safety certified
- Transmitter disable input
- Operating temperature range: 0°~+70° C
- RoHS Compliant

APPLICATION

- Gigabit Ethernet
- Switch to switch interface
- Switched backplane applications

STANDARD

- Compliant with SFP MSA (INF-8074i)
- Compliant with SFF-8472 v9.3
- Compliant with IEEE802.3z Gigabit Ethernet

SPECIFICATION

Parameter	Symbol	Unit	Min	Typ	Max	Notes	
Electrical Characteristics							
Supply Current	Tx Section	I _{cc}	mA	-	3	300	1
	Rx Section						
Single Ended Data Input Swing	-	mV	150	-	1100		
Single Ended Data Output Swing	-	mV	300	-	600		
TX_fault /LOS output (TTL)	VOH	V	2.0		V _{cc}		
	VOL		0		0.8		
TX_disable input (TTL)	VOH	V	2.0		V _{cc}		
	VOL		0		0.8		
Optical transmitter Characteristics							
Launch Optical Power	P _o	dBm	-5		0	40km 1310DFB	
Center Wavelength Range	λ _c	nm	1270	1310	1350	DFB	
Extinction Ratio	EX	dB	9				
Spectral Width	Δλ	nm			1	DFB	
Side Mode Suppression Ratio	SMSR	dB	30			DFB	
Contributed Total Jitter added at TP2	TJ	UI			0.284	2	
Relative Intensity Noise	RIN	dB/Hz			-120	3	
Eye Diagram	Complies with IEEE802.3z eye masks when filtered						
Dispersion Penalty		dB			1		
Optical Rise/Fall Time	Trise/Tfal	ps			260	4	
Optical receiver Characteristics							
Receiver Sensitivity	S	dBm			-23	1310nm 40km	
Overload Input Optical Power	P _{in}	dBm	-3			40km	
LOS	Optical Dersert	dBm		S			
	Optical Assert		-35			40km PIN	
LOS Hysteresis		dB	0.5	3	5	6	

Mechanical

