

SV-SFP28-32GLRD1

Fiber Channel 8G/ 16G/ 32G module
 1310nm SM (LC) with DDM, distance up
 to 10km



Features

- Operating Data Rate Support 25.78Gbps/ 27.95Gbps/28.05Gbps with CDR Engaged Mode
- Operating Data Rate Support 14.025Gbps and 8.5Gbps with CDR Bypassed Mode
- 1310nm DFB-LD Transmitter
- Distance up to 10km
- Single 3.3V Power Supply
- Duplex LC Connector Interface, Hot Pluggable
- Data rate 25.78Gbps/27.95Gbps /28.05Gbps with Dual CDR
- Compliant with MSA SFP+ Specification SFF-8402
- Safety Certification: TUV/UL/FDA
- Power Dissipation < 1.2W
- Operating Case Temperature: 0°C~+70°C

Applications

- OTU4
- 25GBE
- 32GFC/16GFC/8GFC
- Other Optical Link

Ordering Information

Part number	Description	TX Power (dBm)	RX Sens. (dBm)	Fiber Budget (dB)	Distance (km)	DDM
SV-SFP28-32GLRD1	Starview SFP28 Fiber Channel 8G/ 16G/ 32G module 1310nm SM (LC) with Digital Diagnostic Monitoring (DDM), distance up to 10km	-5.0 to +2.0	-11.4 to +2.0	6.4	10	Yes

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	TS	-45	85	°C
Supply Voltage	VCC	-0.5	4.0	V
Operating Relative Humidity	RH	5	85	%

Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating Case Temperature	TC	0		70	°C
Power Supply Voltage	VCC	3.135		3.465	V
Power Supply Current	ICC			360	mA

Performance Specifications – Electrical

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Transmitter						
CML Inputs(Single-ended)	Vin	200		900	mVpp	AC coupled inputs
Input Impedance (Differential)	Zin		100		ohms	Connected directly to TX pins
Tx_DISABLE Input Voltage –High		2		Vcc+0.3	V	
Tx_DISABLE Input Voltage –Low		-0.3		0.8	V	
Receiver						
CML Outputs (Differential)	Vout	300		900	mVpp	AC coupled outputs
Rx_LOS Output Voltage –High		2		Vcc+0.3	V	
Rx_LOS Output Voltage –Low		-0.3		0.8	V	

Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit
9um Core Diameter SMF				10	km
Transmitter					
Center Wavelength	λ_C	1295	1310	1325	nm
Spectral Width (-20dB)	$\Delta\lambda$			1	nm
Output Power (Average)@28.05Gb/s	PAVG	-5		2	dBm

Output Power (OMA)@28.05Gb/s	POMA	-2				dBm
Extinction Ratio@28.05Gb/s	ER	4				dB
Transmitter Dispersion Penalty	TDP			2.7		dB
Side Mode Suppression Ratio	SMSR	30				dB
Receiver						
Center Wavelength	λ_C	1260	1310	1355		nm
Unstressed Receiver Sensitivity(OMA)*Note4	Pmin				-11.4	dBm
Receiver Overload(Average)	Pmax	2				dBm
Optical Return Loss	ORL				-26	dB
LOS De-Assert@28.05Gb/s	LOSD				-17	dBm
LOS Assert@28.05Gb/s	LOSA	-30				dBm
LOS Hysteresis	HY	0.5				dB

Note4: Measured with data rate at 28.05Gb/s, BER less than 1E-6 with PRBS 2³¹-1.