

SV-SFP28-32GSRD

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



Features

- Operating data rate at 25.78Gbps and 28.05Gbps
- 850nm VCSEL Transmitter
- Distance up to 100m @50 / 125 um OM4
- Distance up to 70m @50 / 125 um OM3
- Single 3.3V Power supply
- Duplex LC Connector Interface, Hot Pluggable
- Built-in dual CDR
- Compliant with SFP28 Specification SFF-8402
- Power Dissipation < 1.0W
- Operating Case Temperature Standard: 0°C~+70°C
- Safety Certification: TUV/UL/FDA
- RoHS Compliant

Applications

- 32G/16G/8G FC
- Other Optical Link

Ordering Information

Part number	Description	TX Power (dBm)	RX Sens. (dBm)	Fiber Budget (dB)	Distance (km)	DDM
SV-SFP28-32GSRD	Starview SFP28 Fiber Channel 8G/ 16G/ 32G module 850nm MM (LC) with Digital Diagnostic Monitoring (DDM), distance up to 100m on 50/125um OM4 MM fiber	-6.2 to +2.0	-30.0 to -10.2	20.8	0.1	Yes

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	TS	-40	85	°C
Supply Voltage	VCC	-0.5	3.8	V

Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating Case Temperature	TC	0		70	°C
Power Supply Voltage	VCC	3.15		3.46	V
Power Supply Current	ICC			290	mA

Performance Specifications – Electrical

Parameter	Symbol	Min.	Typical	Max	Unit	Notes
Transmitter						
CML Inputs(Differential)	Vin	200		1000	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		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		0.8	V	

Optical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit
50 / 125 um MMF OM3				70	m
50 / 125 um MMF OM4				100	m
Data Rate			28.05		Gbps
Transmitter					
Centre Wavelength	λ_c	840	850	860	nm
Spectral Width (RMS)	$\Delta\lambda$			0.57	nm
Average Output Power: 50 MMF	P _{out}	-6.2		2.0	dBm

Optical Modulation Amplitude	OMA	-3.2				dBm
Extinction Ratio	ER	3				dB
Receiver						
Centre Wavelength	λ_c	840	850	860		nm
Receiver Sensitivity(OMA) ^{*Note5}	Pmin				-10.2	dBm
Average received power	Pmax	2				dBm
LOS De-Assert	LOSD			-11		dBm
LOS Assert	LOSA	-30				dBm
LOS Hysteresis		0.5				dB

Note5: For 32G FC with FEC, receiver sensitivity is defined at 1E-6 BER level, not 1E-12 BER level.