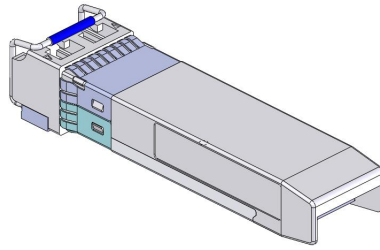


25.78GB/s 100m SFP28 850nm 光收发模块



产品简介

RTXM330-551 光收发模块通过多模光纤支持 25.78Gb/s 速率光数据传输，符合 SFF-8472、SFF-8402、SFF-8432 及 SFF-8431 标准。模块通过 I2C 接口实现数字诊断功能，符合 SFF-8472 标准。

功能

- 传输距离达 100m(OM4 多模光纤)
- LC 收发连接器
- 功耗<1.2W
- 工作温度 0℃ ~ 70℃
- 供电电压+3.3V±5%
- 数字诊断符合 SFF-8472 标准

应用

- 25G BASE-SR 以太网

标准

- SFF-8472
- SFF-8402
- SFF-8432
- SFF-8431

规格

Parameter	Symbol	Unit	Min	Typ	Max
Transmitter					
Nominal Wavelength	λ	nm	840		860
Spectral Width	$\Delta\lambda$	nm			0.6
Optical Modulation Amplitude	POMA	dBm	-6.4		3
Optical Output Power	P _{av}	dBm	-8.4		2.4
Extinction Ratio	ER	dB	2		
Transmitter and Dispersion Penalty	TDP	dB			5
Average launch power of OFF transmitter	P _{OFF}	dBm			-30
Receiver					
Center Wavelength	λ	nm	840		860
Average Receiver Power	P _{AVG}	dBm	-10.3		2.4
Stressed Receiver Sensitivity (OMA)	R _{SENSE}	dBm			-5.2
Receiver Reflectance	R _{REFL}	dB			-12
Assert LOS	LOS _A	dBm	-30		
De-Assert LOS	LOS _D	dBm			-13
LOS Hysteresis		dB	0.5		

订购信息

Part No.	Specifications									Application
	Package	Datarate (Gb/s)	Laser	Optical Power (dBm)	Detector	Sensitivity (OMA) dBm	Top	Reach (m)	Other	
RTXM330-551	SFP+	25.78	VCSEL	-8.4 ~2.4	PIN	< -5.2	0~70 °C	100m	DDM	25G BASE-SR

电接口定义

Parameter	Symbol	Unit	Min	Typ	Max
Supply Voltage	V _{CC}	V	3.14	3.3	3.46
Supply Current	I _{CC}	mA			350
Transmitter					
Input Differential Impedance	R _{IN}	Ω	80	100	120
Single Ended Data Input Swing	V _{IN}	mVp-p	90		800
Transmit Disable Voltage	V _{DIS}	V	2		V _{CCHOST}
Transmit Enable Voltage	V _{EN}	V	V _{EE}		V _{EE} +0.8
Transmit Fault Assert Voltage	V _{FA}	V	2.2		V _{CCHOST}
Transmit Fault De-Assert Voltage	V _{FDA}	V	V _{EE}		V _{EE} +0.4
Receiver					
Single Ended Data Output Swing	V _{OD}	mVp-p	185		425
LOS Fault	V _{LOSFT}	V	2.2		V _{CCHOST}
LOS Normal	V _{LOSNR}	V	V _{EE}		V _{EE} +0.4