40G QSFP+ optical transceiver with DDM function

This product is designed for fiber-communication based on optical-electrical technology. The product is an integrated module containing a micro-optic component and semiconductor material. The module could implement optical-electrical conversion and electrical-optical conversion function. It could be used at key locations in optical networks like 40GBASE Ethernet.

Features

- Up to 10.5Gb/s data rate per channel
- Distance up to 300m on OM3 MMF and 400m on OM4 MMF
- 850nm VCSEL array transmitters
- With Tx Power Monitoring
- Single 1x12 MPO receptacle optical interface
- Single +3.3V power supply
- XLPPI electrical interface
- Maximum power dissipation<1.5W
- International Class 1 laser safety certified
- Operating temperature range: 0℃ ~ +70℃
- Compliant with RoHS6

Applications

- 40GBASE-SR4 Ethernet

Standards

- Compliant with QSFP+ MSA(SFF-8436 v3.4)
- Compliant with SFF-8472 v10.2
- Compliant with IEEE 802.3ba

Specifications

(tested under recommended operating conditions, unless otherwise noted)

Parameter	Symbol	Unit	Value		
			Min	Typ	Max
Transmitter(per Lane)					
Center wavelength		nm	840		860
RMS Spectral Width	SW	nm			0.45
Average Launch Power per Lane	TXPx	dBm	-7.6		-1
Transmit OMA per Lane	TxOMA	dBm	-5.6		3.0
Optical Extinction Ratio	ER	dB	3.0		
Average launch power of OFF transmitter, per lane		dBm			-30
Relative Intensity Noise	RIN	dB/ Hz			-128
Receiver(per Lane)					
Center wavelength		nm	840		860
Damage Threshold	DT	dBm	3.4		
Average Launch Power per Lane	RXPx	dBm	-9.9		2.4
Receive Power(OMA) per Lane	RxOMA	dBm			3.0
Stressed Receive Sensitivity(OMA) per lane	SRS	dBm			-5.4
LOS De-Assert	LOSD	dBm			-12
LOS Assert	LOSA	dBm	-30		
LOS Hysteresis		dB	0.5		

Ordering Information

Part No	Specification								
	Package	Data rate	Laser	Power	Detector	Sensitivity	Temp	Reach	Other
RTXM320-560	QSFP+	42G	850nm VCSEL	-7.6 ~ -1dBm	PIN	-9.9dBm	0~70℃	300m	DDM, RoHS