

40 GB/s QSFP+ LM4



RTXM320-450	QSFP+	40GE			
4			10G	SFF-8436	IEEE802.3ba

- 10.5Gb/s
- 150m@OM3, 160m @OM4 MMF, 2Km@SMF
- 4×10G CWDM DFB
- LC
- <3.5W
- 0 to 70
- RoHS6

- 40G

- MSA SFF-8436
- IEEE802.3ba

Signaling Speed		GBd		10.3125		
Center wavelength		nm	1264.5	1271	1277.5	
			1284.5	1291	1297.5	
			1304.5	1311	1317.5	
			1324.5	1331	1337.5	
Average Launch Power per Lane	TXPx	dBm	-3.0		4.0	MMF
			-7.0		2.3	SMF
Side Mode Suppression Ratio	SMSR	dB	30			
Optical Extinction Ratio	ER	dB	3.5			
Optical Return Loss Tolerance	ORL	dB			12	
Average launch power of OFF transmitter		dBm			-30	
Relative Intensity Noise	RIN	dB/Hz			-128	
Transmitter Eye mask definition{X1 X2 X3,Y1 Y2,Y3}			{0.25, 0.4, 0.45, 0.25, 0.28,0.4}			
Signaling Speed		GBd		10.3125		
Center wavelength		nm	1264.5	1271	1277.5	
			1284.5	1291	1297.5	
			1304.5	1311	1317.5	
			1324.5	1331	1337.5	
Damage Threshold	Pmax	dBm	5.5			
Average Receive Power	RXPx		-13.7		2.5	SMF
						SMF
Receive Sensitivity(OMA)	RXsen	dBm			-11.5	SMF
Stressed Receive Sensitivity(OMA)	SRS	dBm			-9.6	SMF
LOS De-Assert	LOS _D	dBm			-16	
LOS Assert	LOS _A	dBm	-30			
LOS Hysteresis	LOS _H	dB	0.5			

Part No.	Specifications									Applica tion
	Package	Data rate(Gb/s)	Laser	Optical Power (dBm)	Detector	Sensitivity (OMA) dBm	Top	Reach (km)	Other	
RTXM320-45	QSFP+	4	CWD	-3.0~4.0@MMF	PIN	-11.5	0~70 °C	150m@OM	RoH	40G
0			M DFB	-7.0~2.3@SMF Per lane				3 2Km@SM	S	bE

F

Supply Voltage	Vcc1,VccTx, VccRx	V	-0.5		+4.0	
Supply Current	Icc	A			1.1	
Single ended input voltage	VinT	V	-0.3		4.0	
Differential Data Input Swing	Vin,pp	mVpp	150		1000	
J2 Jitter Tolerance	Jt2	UI	0.17			
J9 Jitter Tolerance	Jt9	UI	0.29			
Data Dependent Pulse Width Shrinkage	DDPWS	UI	0.07			
Eye mask {X1,X2, Y1,Y2}		UI mV	0.11,0.31 95,350			
Single ended output voltage tolerance		V	-0.3		4.0	
Differential Data output Swing	Vout,pp	mVpp	300		850	
Output transition time,20% to 80%		ps	28			
J2 Jitter Tolerance	Jt2	UI	0.17			
J9 Jitter Tolerance	Jt9	UI	0.29			
Eye mask {X1,X2, Y1,Y2}		UI mV	0.11,0.31 95,350			