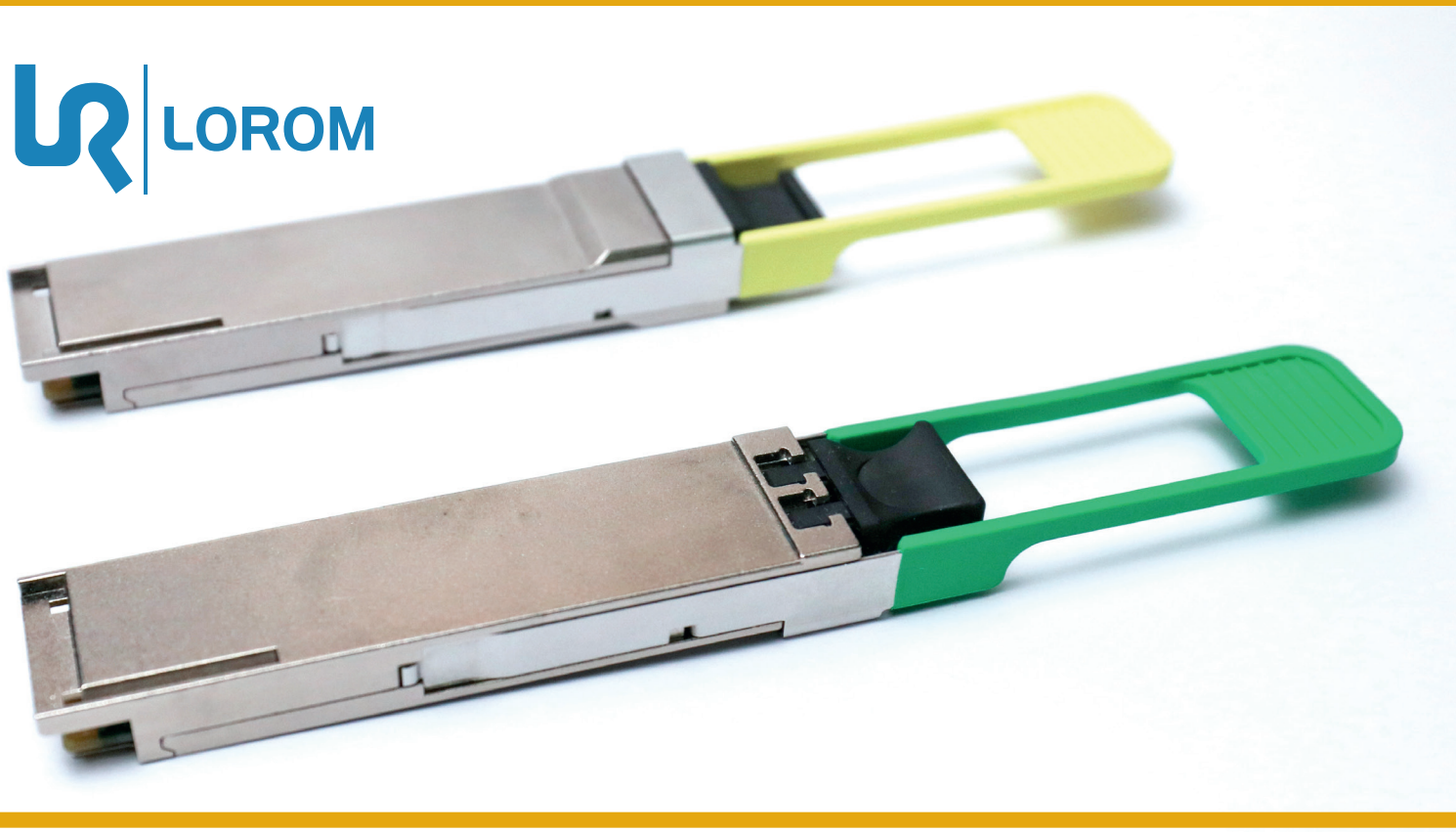
LOROM



100G QSFP28 CWDM4 Transceiver

The essence of Lorom product design is to ensure that maximum performance levels are consistently achieved in all conditions and environments. Our CWDM4 (Coarse Wavelength Division Multiplexing) Transceiver is specifically TOSA/ROSA designed to provident low power consumption and high RF performance and to guarantee product quality.

FEATURES

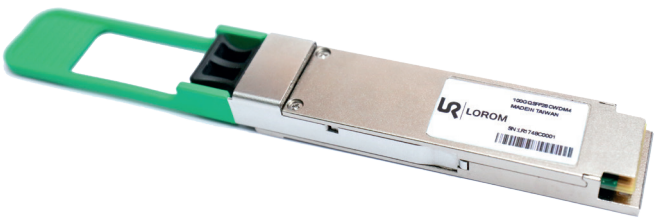
- Single 3.3V Power Supply
- Operating case temperature (0°C~70°C)
- Up to 2 Km link length via SMF
- Hot pluggable
- Low power dissipation
- Uncooled 4x25Gb/s CWDM transmitter

APPLICATIONS

- Data Center Backbone
- Ethernet Switches
- High-speed Servers
- High-performance Computing Clusters
- SAN, Routers, Hubs, Load Balancer
- Infiniband EDR, FDR and QDR

STANDARDS & AGREEMENTS COMPLIANT

- IEEE 802.3bm, IEEE 802.3ba, SFF-8665, SFF-8636
- 100G CWDM4 MSA
- QSFP28 MSA
- RoHS-6



Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
Storage Temperature	-40	+85	°C
Relative Humidity	0	+85	%

Recommended operating Conditions (T=25°C, unless noted)

Parameter	Min.	Typ.	Max.	Unit
Case Temperature	0		70	°C
Power Supply Voltage	3.15	3.3	3.45	V
Signaling Rate Each Channel		25.78125		Gbps
Supply Noise Rejection			100	mV
Receiver Differential Data Output		100		Ohm
Operating Distance			2	km

Electrical Characteristics (T=25°C, unless noted)

Parameter	Max.	Unit	
Power Consumption	3.5	W	
Supply Current	1200	mA	

Transmitter Characteristics (T=25°C, unless noted)

Parameter	Min.	Typ.	Max.	Unit
Signaling Rate, Each Lane		25.78125		Gbps
Center Wavelength λ0	1264.5		1277.5	nm
Center Wavelength λ1	1284.5		1297.5	nm
Center Wavelength λ2	1304.5		1317.5	nm
Center Wavelength λ3	1324.5		1337.5	nm
Side-mode Suppression Ratio	30			dB
Total Average Launch Power			8.5	dBm
Average Launch Power, Each Lane	-6.5		2.5	dBm
Optical Modulation Amplitude (OMA), Each Lane	-4		2.5	dBm
Transmitter and Dispersion Penalty (TDP)			3	dB
Launch Power in OMA minus TDP, Each Lane	-5			dBm
Average Launch Power of OFF Transmitter Reflectance			-30	dBm
Extinction Ratio	3.5			dB
Optical Return Loss Tolerance			20	dB
Transmitter Reflectance			-12	dB

Receiver Characteristics (T=25°C, unless noted)

Parameter	Min.	Typ.	Max.	Unit
Signaling Rate, Each Lane (range)		25.78125		GBb
Center Wavelength λ0	1264.5		1277.5	nm
Center Wavelength λ1	1284.5		1297.5	nm
Center Wavelength λ2	1304.5		1317.5	nm
Center Wavelength λ3	1324.5		1337.5	nm
Damage Threshold	3.5			dBm
Average Power at Receiver Input, Each Lane	-11.5		2.5	dBm
Receive Power, Each Lane (OMA)			2.5	dBm
Receiver Reflectance			-26	dB
Receiver Sensitivity (OMA)			-10	dBm

LOROM

Speak to us for more information or visit our website **www.lorom.com**

Lorom (California)
39650 Liberty Street,
Suite 400, Fremont,
CA 94538, USA
+1-919-535-5830

Lorom (Europe)
4 The Parks, Haydock,
WA12 OJQ, UK
+44-1942-727-775

Lorom (HQ)
Floor 15, No. 78
Section 2, An-Ho Road,
Taipei, Taiwan
+886-2-2706-2981