



100G QSFP28 SR4 Active Optical Cable

The essence of Lorum product design is to ensure that maximum performance levels are consistently achieved in all conditions and environments. Our SR4 Transceiver is specifically designed to increase optical coupling efficiency with effective heat and power dissipation.

FEATURES

- Single 3.3V Power Supply
- Operating case temperature (0°C~70°C)
- Up to 100m link length
- Hot pluggable
- Low power dissipation

APPLICATIONS

- Data Center Backbone
- Ethernet Switches
- High-speed Servers
- High-performance Computing Clusters
- SAN, Routers, Hubs, Load Balancer

STANDARDS & AGREEMENTS COMPLIANT

- IEEE 802.3bm, IEEE 802.3ba, SFF-8665, SFF-8636
- 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
Operating Distance (OM3/OM4)			70/100	m

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

Parameter	Max.	Unit
Power Consumption	2.5	W
Supply Current	1060	mA
Initialization Time	2000	ms

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

Parameter	Min.	Typ.	Max.	Unit
Center Wavelength	840	850	860	nm
RMS Spectral Width			0.6	nm
Differential Input Impedance		100		Ohm
Differential Data Input Swing	180		900	mV
Single Ended Input Voltage Tolerance	-0.3		3.6	V
AC Common Mode Input Voltage Tolerance	15			mV
Differential Input Voltage Swing Threshold	30			mVpp

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

Parameter	Min.	Typ.	Max.	Unit
Center Wavelength	840	850	860	nm
Differential Output Impedance		100		Ohm
Differential Data Output Swing	250		900	mV
Single Ended Output Voltage Tolerance	-0.3		4	V
AC Common Mode Output Voltage			7.5	mV
Differential Output Voltage Swing	300		1000	mVpp



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