

Optical Transceiver



800G QSFP-DD SR8

General Description

QSFP-DD SR8 is an Eight-Channel, Parallel, Pluggable, Fiber-Optic QSFP-DD for 800Gigabit Ethernet applications. It's a high performance module for short- reach data communication and interconnect application. It integrates eight data lanes in each direction with 8x53.125GBd. The transmission distance is up to 60 meters over OM3 MMF or 100 meters over OM4 MMF. It's designed to operate over multimode fiber systems using a nominal wavelength of 850nm.



QSFP-DD Serial Optical Interface

- 8x100G PAM4 retimed 800GAUI-8 electrical interface
- MPO connector
- 8 channel VCSEL arrays and 8 channels PIN photo detector arrays
- Maximum link length of 60m on OM3 or 100m on OM4



QSFP-DD MSA Compliant

- Hot Pluggable QSFP-DD form factor
- Compliant to QSFP-DD-Hardware-Rev 6.3 MSA
- Compliant to CMIS 5.2



Standards and Low Power Consumption

- Compliant to IEEE 802.3db
- Compliant to IEEE 802.3ck
- Less than 14W in temperature range of 0 to 70°C

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Technical data

Part Number	800G QSFP-DD SR8	Brand	Hermesys
Package Type	QSFP-DD	Transmission rate	850Gbps (8x 106.25Gbps)
Wavelength	860nm	Transmission distance	60m on OM3 or 100m on OM4
Connector	MPO	Fiber type	Multimode MMF
Transmitter type	VCSELs	Receiver type	PIN
Data diagnosis	Yes	Commercial Temperature	0~70°C
Transmitted optical power	-4.6~4dBm	Receiver sensitivity	max(-4.6dBm, TECQ-6.4)
Power budget	>2dB	Receive overload	5dBm
Power Consumption	≤14W	Extinction Ratio	>2.5dB
Modulation	PAM4	Packaging scheme	COB package (chip on board package)
CDR (Clock Data Recovery)	Transmitter and receiver built-in CDR	FEC function	Yes
Protocol	IEEE802.3ck, IEEE802.3db QSFP-DD MSA	Warranty	3 years