

100G QSFP28 Modules

Datasheet

SM9110-SR4

100GBASE-SR4 QSFP28 Transceiver



Highlights

- 100GBASE-SR4 multi-mode QSFP28 Transceiver
- Supports Digital Diagnostic Monitoring (DDM)
- Up to 100 m transmission distance
- Hot-Pluggable with maximum flexibility
- Wide operating temperature
- Compatible with 100G/40G Quad Small Form-Factor Pluggable 28 (QSFP28)

Overview

The SM9110-SR4 is designed to extend transmission distance based on ultra-fast Ethernet connectivity. It is a 100G/40GBASE-SR4 high performance 850nm multi-mode QSFP28 transceiver. It supports 100G Ethernet connection up to 100 m (OM4) and 40G Ethernet connection up to 150 m (OM4).

Product Pictures



Specifications

Hardware Features & Performance		
Model		SM9110-SR4
General Specifications	Form Factor	QSFP28
	Standards and Protocols	<ul style="list-style-type: none">• IEEE 802.3bm, IEEE 802.3ba, QSFP28 MSA,• SFF-8665, SFF-8636, SFF-8436,• CPRI, eCPRI• TCP/IP
	Wave Length	850 nm
	Power Supply	3.3 V
	Max. Power Consumption	1.77 W @100 Gbps 1.5 W @40 Gbps
	Fiber Type	50/125um MMF (Multimode)
	Max. Cable Length	70 m (OM3), 100 m (OM4) @103.125 Gbps (4x 25.78Gbps) 100 m (OM3), 150 m (OM4) @41.2 Gbps (4x 10.3 Gbps)
	Data Rate	Dual Rate 103.125 Gbps and 41.2 Gbps
	Connector	MTP/MPO-12
	Transmission power	-8.4 dBm to 2.4 dBm @103.125 Gbps -7.6 dBm to 2.4 dBm @41.2 Gbps
	Transmitter Type	VCSEL 850 nm
	Receiver Type	PIN
	Receiver Sensitivity	<-10.3 dBm @103.125 Gbps <-9.5 dBm @41.2 Gbps
	Receiver Overload	>2.4 dBm @103.125 Gbps >2.4 dBm @41.2 Gbps
	Extinction Ratio	>2 dB @103.125 Gbps >3 dB @41.2 Gbps
	Regulatory Compliance	CE, FCC, RoHS
	Hardware Features	<ul style="list-style-type: none">• DDM• QSFP28 MSA• Hot Swappable
	Dimensions (W x D x H)	5.04*0.72*0.34 in (128*18.35*8.5mm)

Hardware Features & Performance		
Environmental & Physical Specifications	Operating Temperature	0°C to 70°C (32°F to 158°F)
	Storage Temperature	-40°C to 85°C (-40°F to 185°F)
	Operating Humidity	5 to 95% RH Non-condensing
	Storage Humidity	5 to 95% RH Non-condensing