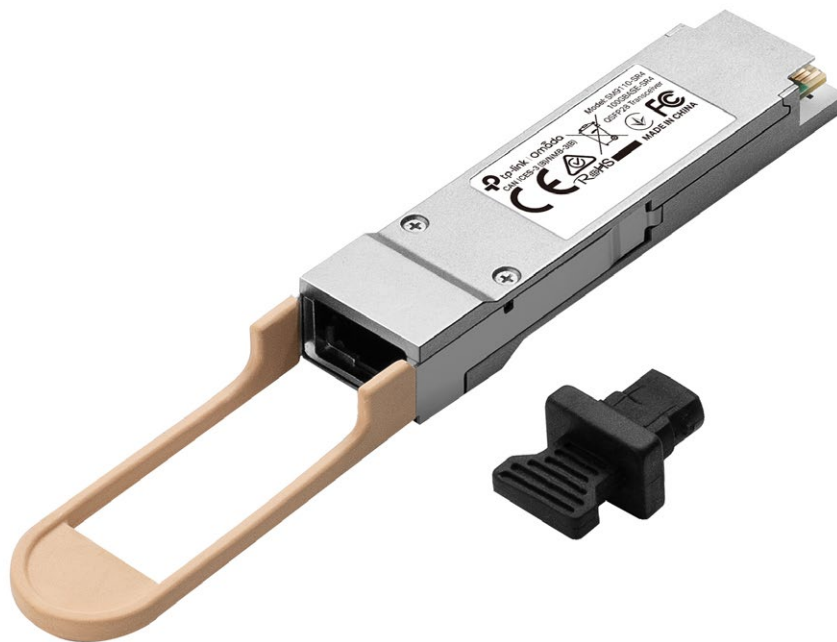


Omada 100GBASE-SR4 QSFP28 Transceiver Datasheet

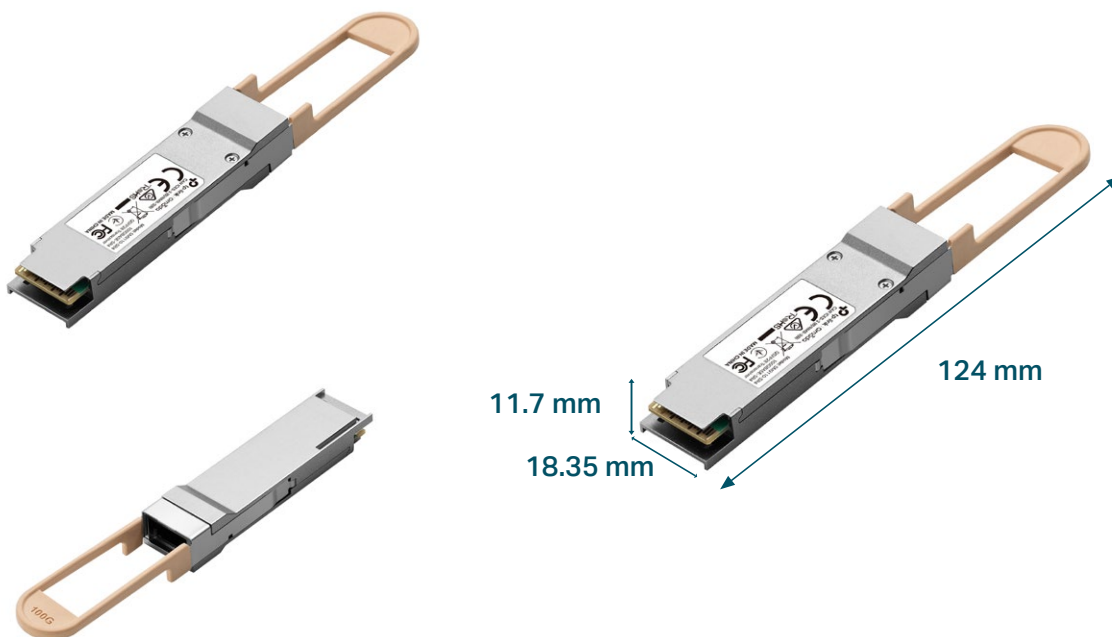
MODEL: SM9110-SR4



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)

Product Pictures



Specifications

Model	SM9110-SR4	
General Specifications	Form Factor	QSFP28
	Support Data Rate	Dual Rate 103.125 Gbps and 41.2 Gbps
	Wave Length	850 nm
	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)
	Connector	MTP/MPO-12
	QSFP28 MSA	Yes
	Media	MMF (Multimode Fiber)
	Core Size	50/125 μ m
	Transmitter Type	VCSEL 850 nm
	Receiver Type	PIN
	Transmitter Power	-8.4 dBm to 2.4 dBm @103.125 Gbps -7.6 dBm to 2.4 dBm @41.2 Gbps
	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

Model		SM9110-SR4
General Specifications	Power Supply	3.3 V
	Power Consumption	Max 1.8 W at 100 Gbps Max 1.54 W at 40 Gbps
	Optical Budget	>1.9 dBm @103.125 Gbps >1.9 dBm @41.2 Gbps
	CDR (Clock and Data Recovery)	Built-in CDR
	DDM	Yes
	Standards and Protocols	• IEEE 802.3bm, IEEE 802.3ba, QSFP28 MSA, • SFF-8665, SFF-8636, SFF-8436, • CPRI, eCPRI • TCP/IP
	Packaging Technology	COB Packaging
	Hot Swappable	Yes
	Regulatory Compliance	CE, FCC, RoHS
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	0 to 85% RH Non-condensing
	Storage Humidity	0 to 85% RH Non-condensing