

Intel E100GQSFP28SRX Datasheet



Intel Ethernet QSFP28 Optical Transceiver Module, 100GBASE-SR4, Extended Temp

E100GQSFP28SRX

Intel Ethernet QSFP28 Optic E100GQSFP28SRX is an excellent choice for up to 100 meter reach in multimode fiber systems for high-speed communications equipment. Ideal for short-range multi-lane data communication and interconnects applications, the 100GbE QSFP28 SR4 transceiver is a high-performing module for SR optical links. There are four independent transmit and receive channels, each capable of 25Gbps operation, for an aggregate data rate of 100Gbps up to 100 meters over OM4 MMF.

When used with Intel Ethernet Network Adapters with QSFP28 connectivity, these optics provide interoperability and secure connections for virtualization, high-speed networking, and consistently reliable performance. Extended case operating temperature allows for system flexibility to support a range of requirements

Key Features

- Hot-pluggable QSFP28 optical transceiver

- Up to 100 m link on OM4 multi-mode fiber (MMF)
- Four independent parallel optical channels
- Max power 2.5 W
- QSFP28 MSA compliance
- Power class 3
- Case operating temperature 0 to 85 °C
- RoHS II Compliance
- Meets standard BER of 5E-5

Specifications

- Product Code: E100GQSFP28SRX
- Module Form Factor: QSFP28
- Network Standards Physical Layer Interface: 100GBASE-SR4
- Airflow and Temperature Guidelines: Refer to adapter product brief for specific airflow and temperature requirements
- Module Specifications
 - Electrical: SFF-8679
 - I2C Register interface: SFF-8636
 - Mechanical: SFF-8661
- Transmission rate: 100 Gbit/s
- Optical fiber type: MMF
- Transmission distance: 100m @ OM4 MMF
- Working case temperature: 0°C to 85°C

Transmitter Optical Characteristics

Parameter	Symbol	Min	Typ	Max	Units
Average Launch Power, each lane	POUT	-8.4	-	2.4	dBm

Optical modulation Amplitude, each lane	OMA	-6.4	-	3	dBm
Extinction Ratio	ER	2	-	-	dB
Optical Output with Tx OFF	POFF	-	-	-30	dBm
Center Wavelength	λ	840	850	860	nm
RMS Spectral Width	$\Delta\lambda$	-	-	0.6	nm
Optical return loss tolerance	ORL	-	-	12	dB

Receiver Optical Characteristics

Parameter	Symbol	Min	Typ	Max	Units
Average power at receive input, each lane	PIN	-	-	2.4	dBm
Average power at receive input, each lane	PIN	-10.3	-	-	dBm
Unstressed receiver sensitivity	Sen	-	-	-7.2	dBm
Center Wavelength	λ	840	850	860	nm

Receiver Reflectance	RFL	-	-	-12	dB
Rx_LOS of Signal - Assert	PA	-30	-	-	dBm
Rx_LOS of Signal - Deassert	PD	-	-	-7.5	dBm
Rx_LOS of Signal - Hysteresis	PHy	-	1.5	-	dBm

For more specifications of this E100QSFP28SRX, please visit below Intel website.

<https://www.intel.com/content/www/us/en/products/sku/185278/intel-ethernet-qsfp28-optic/specifications.html>

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