

# Intel E10GSFPSR Datasheet



Intel Ethernet SFP+ Optical Transceiver Module, 10GBASE-SR 10GbE / 1000BASE-SX 1GbE

## E10GSFPSR

For customers looking for Ethernet connections over 15 meters, Intel Ethernet SFP+ Optics can extend the reach to 300 meters or longer. These optical modules support both short range and long range distances with 10 Gigabit Intel Ethernet Network Adapters.

The flexibility provided through reach and range enables customers to create networking configurations that best meet the needs of their data center environment. Other installation benefits include: Smaller physical dimensions, use less power, tighter bend radius, lighter weight, and have a longer reach compared to copper media options.

Fiber optics are also more immune to harsh environmental factors. The light used for data transmission does not carry an electrical current so it cannot be impacted by electrical transmissions or radio frequency interference. And, light has a superior signal strength that is near impervious to unwanted network taps.

10 Gigabit Intel Ethernet Network Adapters with SFP+ connectivity are also the most scalable – providing more secure connections for virtualization, flexibility for LAN and SAN networking, and proven reliable performance. Other use cases include connecting servers to End of Row (EoR) and Top of Rack (ToR) switches.

## Key Features

- Hot-pluggable SFP+ MSA compliant module
- SR and LR support 1GbE and 10GbE
- SRX (extended temperature) supports 10GbE only
- Duplex LC connector
- Built-in digital diagnostic functions
- RoHS-6 compliant (lead-free)

## Specifications

- Product Code: E10GSFPSR
- Intel Order Numbers
  - Retail: 903239
  - OEM Generic: 909923
- Module Form Factor: SFP+
- Network Standards Physical Layer Interface:
  - 1000BASE-SX 1GbE
  - 10GBASE-SR 10GbE
- SFP+ Module Specifications
  - Electrical interface: SFF-8431 Rev 4.1
  - I2C Register interface: SFF-8472 Rev 10.4
  - Mechanical: SFF-8432 Rev 5.0
- Transmission rate: 10Gb/s, 1Gb/s
- Connector type: LC
- Optical fiber type: MMF
- Optical Wave Length: 850nm
- Maximum Supported Distance
  - OM1 62.5um 160 MHz-km: 220m @ 1Gb/s, 26m @ 10Gb/s
  - OM1 62.5um 200 MHz-km: 275m @ 1Gb/s, 33m @ 10Gb/s
  - OM2 50um 400 MHz-km: 500m @ 1Gb/s, 66m @ 10Gb/s

- OM2 50um 500 MHz-km: 550m @ 1Gb/s, 82m @ 10Gb/s
- OM3 50um 2000 MHz-km: >550m @ 1Gb/s, 300m @ 10Gb/s
- Case Operating Temperature: 0 to 70 °C
- Storage Temperature: -40 to 85 °C

#### Note

- Other brands of SFP+ optical modules will not work with the Intel Ethernet Converged Network Adapter X520 Series.
- When two Intel Ethernet Converged [Network Adapter](#) X520 Series SFP+ devices are connected back to back, they should be configured with the same Speed/Duplex setting. Results may vary if speed settings are mixed.

For more specifications of this E10GSFPSR, please visit below Intel website.

<https://www.intel.com/content/www/us/en/products/sku/50680/intel-ethernet-sfp-sr-optics/specifications.html>

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