

AT A GLANCE

E.C.I. NETWORKS's 25G SFP28 optical transceiver series includes SR, LR, ER, BIDI, CWDM, DWDM, LWDM and MWDM series. This series of products adopt LC optical ports and are compatible with IEEE802.3by&CC, SFF-8472 and other standards. These products are mainly applied in Data Centers, **5G** networks, 25G Ethernet, Fiber Channel and other environments.

E.C.I. NETWORKS's 850 nm VCSEL 25Gigabit SFP28 transceiver is designed to transmit and receive optical data over 50 μ m multimode optical fiber. The SFP28 SR module electrical interface is compliant to SFI electrical specifications. The transmitter converts 25Gbit/s serial PECL or CML electrical data into serial optical data compliant with the 25GBASE-SR standard.

25G SR/eSR PRODUCT FEATURES

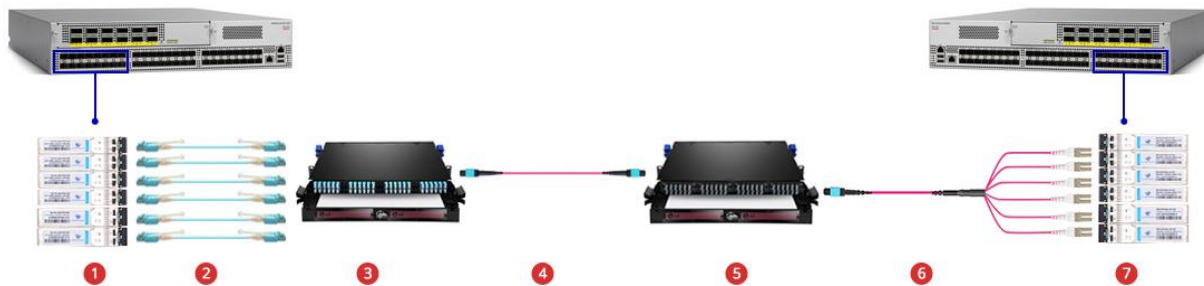
- Hot-swappable input/output device that plugs into a 25Gigabit Ethernet SFP28 port
- 100m over M5F MMF (50/125 μ m OM4)
- 70m over M5E MMF (50/125 μ m OM3)
- VCSEL Laser and PIN receiver
- Metal enclosure, for lower EMI
- 2-wire interface with integrated Digital Diagnostic monitoring
- Internal CDR for Tx and Rx
 - CDR support range: 24.3Gb/s to 28.05Gb/s
 - Bypass mode range: 8.5Gb/s to 24.2Gb/s
- Single 3.3V power supply
- Power dissipation < 1.2 W
- operating temperature
 - Commercial: 0°C to +70°C
 - Industrial: -40°C to +85°C
- RoHS 6/6 compliant
- DDM/DOM Supported
- **Proven and tested on Multiple platforms including Cisco, Juniper, Arista SFP28 25G ports for superior performance, quality, and reliability**



25G-SR DIRECT CONNECTIVITY

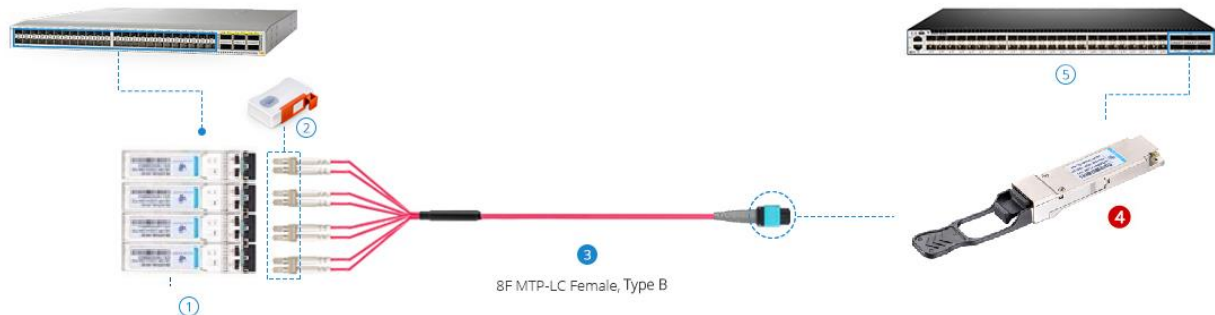


INTER-RACK 25G-SR CONNECTIVITY



MTP TO LC BREAKOUT TRUNK CABLE

100G-SR4 can be used in a 4x25G breakout mode for interoperability with 25GBASE-SR interfaces. The 4x25G connectivity is achieved using an external 8/12-fiber parallel to 4x2-fiber duplex breakout cable, which connects the 100GBASE-SR4 module to four 25GBASE-SR optical interfaces. MTP to LC Breakout/Fanout cable offer a connectivity transition from 8/12-fiber MTP connectors to duplex LC connectors.



Ordering Information

P/N	EN-SFP28-SR-xx	EN-SFP28-SRixx
Product Description	25Gbps 850nm Multimode SFP28 Transceiver	25Gbps 850nm Multimode SFP28 Transceiver, I-Temp
Data Rate (Bit/s)	25G	25G
TX	850nm VCSEL	850nm VCSEL
RX	PIN	PIN
Reach	70/100m OM3/OM4	70/100m OM3/OM4
Interface	Duplex LC	Duplex LC
Output Power (dBm)	-8.4~2.4	-8.4~2.4
Sensitivity (dBm)	-10.3~2.4	-10.3~2.4
Temperature (°C)	0~70	-45~85
Power consumption (w)	<1W	<1W

Product Selection

xx: Refers to vendor compatibility

I: I refers to Industrial Temperature where applicable

Per example:

EN-SFP10G-LR-EZ refers to Commercial Temperature, and compatible with Evertz, EN-SFP10GIDL-JREX refers to Industrial Temperature, and compatible with Juniper EX Series

** Please note pricing is same for most of the NEMs including Cisco, Juniper, F5, Fortinet, except HP, Evertz. There is an additional charge

Compatibility; Tested and Proven

- ◆ Proven Compatibility and Interoperability with; Cisco, Juniper, ALCATEL-LUCENT, ADVA, Brocade, CIENA, Huawei, PacketLight, Transmode, NtInsight, ToyoTech, etc.
- ◆ Test and Visibility equipment such as; IXIA, GIGAMON, VSS, SPIRENT, JDSU, XENA, EXFO, etc.

Compliance

All our products come with Built-in digital diagnostic functions DDM Compliant with SFF-8472 Rev12 and Compliant with the MSA SFF SPECIFICATIONS.

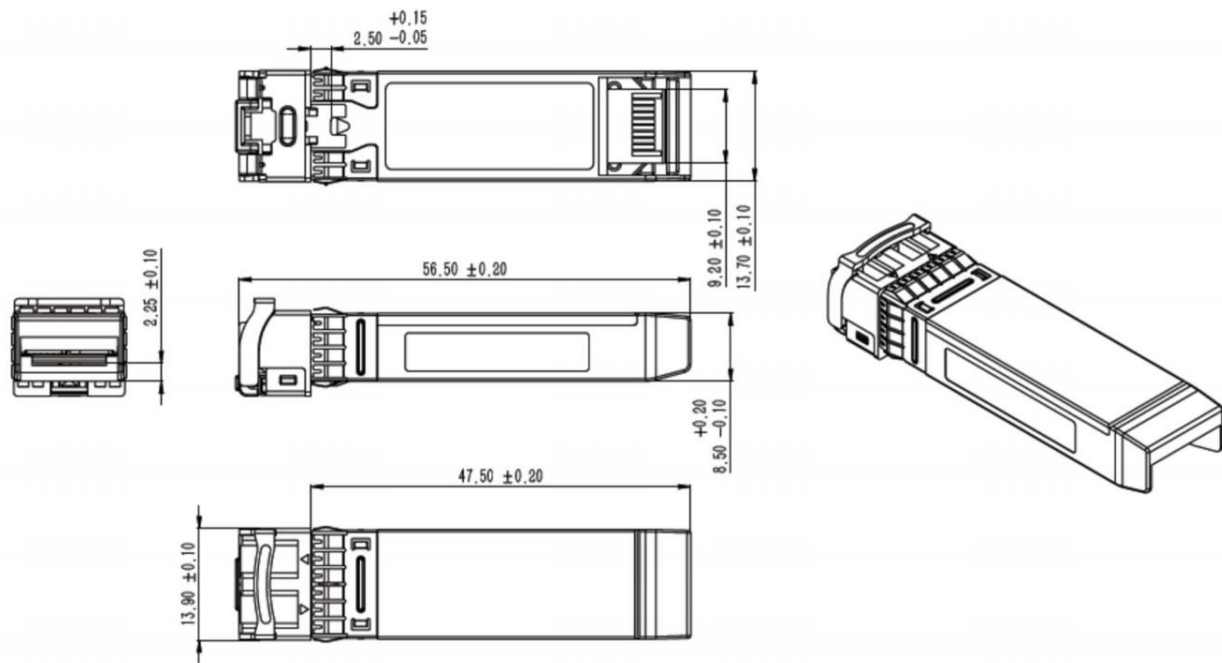
Recommended Operating Conditions

Parameter	Symbol	Min.	Typ	Max.	Unit
Operating Case Temperature	T _c	0		70	°C
Supply Voltage	V _{cc}	3.14	3.3	3.47	V
Power Dissipation	P _d			1.5	W
Bit Rate	BR		25.78		Gbps

Optical Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Transmitter						
Bit Rate	Br		25.78	-	Gbps	
Center Wavelength	λ _C	830	850	870	nm	
RMS Spectral Width	λ _{rms}			0.6	nm	
Average Launch Power Tx off	P _{off}			-30	dBm	
Average Launch Power	PAVG	-8.4		2.4	dBm	1
Extinction Ratio	ER	2.0			dB	
Optical return loss tolerance				12	dB	
Receiver						
Bit Rate	Br		25.78	-	Gbps	
Wavelength Range	λ _C	840		860	nm	
Overload Input Optical Power	P _{max}	3.4			dBm	
Receiver Sensitivity in OMA	SEN			-10	dBm	2
Average Receive Power	P _{in}	-10.3		2.4	dBm	
Signal Loss Assert Threshold	LOSA	-30			dBm	
Signal Loss Deassert	LOSD			-11	dBm	
LOS Hysteresis	LOSH	0.5			dB	

Mechanical specifications



Notice:

ECI Networks reserves the right to make changes to or discontinue any optical link product or service identified in this publication, without notice, in order to improve design and/or performance. Applications that are described herein for any of the optical link products are for illustrative purposes only.

For further information



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