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 product series adopts LC optical ports and is 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.

PRODUCT FEATURES

- Up to 25.78Gbps Data Links
- Up to 10km transmission on SMF
- DFB Laser and PIN receiver
- Build-in dual CDR 10G/25G Auto-speed Switch
- Metal enclosure for lower EMI
- 2-wire interface with integrated Digital Diagnostic monitoring
- Hot-pluggable SFP28 footprint
- Compliant with SFF-8402 with LC connector
- Single 3.3V power supply
- Power dissipation < 1.5 W
- Case operating temperature
    - Commercial: 0°C to +70°C
    - Industrial: -40°C to +85°C
- **Proven and tested on Multiple platforms including Cisco, Juniper, Arista SFP28 25G ports for superior performance, quality, and reliability**

APPLICATIONS

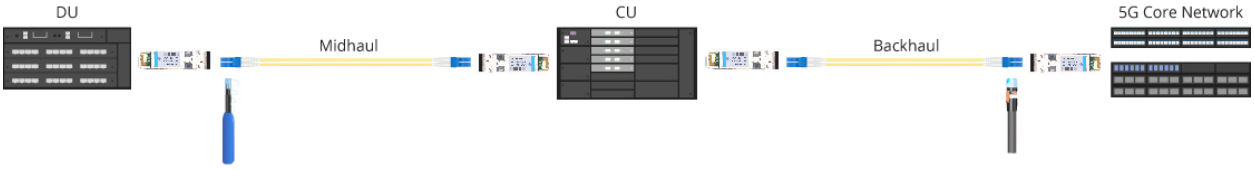
- 10G/25GBASE-LR
- eCPRI and CPRI

STANDARD

- Compliant with SFF-8472 &8431
- RoHS Compliant

10G/25G Datacenter LR Direct Connectivity

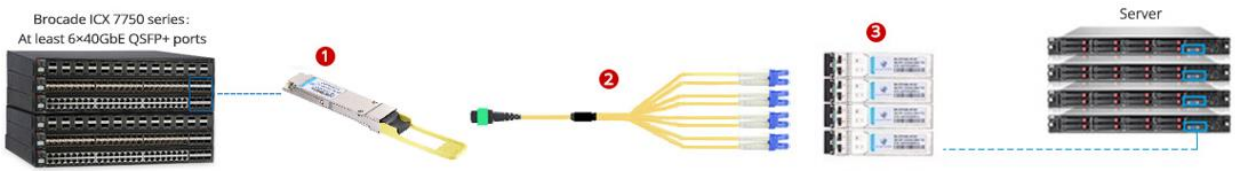
25G- 5G Direct Connectivity



Inter-Rack 25G-LR Connectivity

MTP to LC Breakout Trunk Cable

100G-PSM4 can be used in a 4x25G breakout mode for interoperability with 25GBASE-LR interfaces. The 4x25G connectivity is achieved using an external 8/12-fiber parallel to a 4x2-fibre duplex breakout cable, which connects the 100GBASE-SR4 module to four 25GBASE-LR optical interfaces. MTP to LC Breakout/Fanout cable offers a connectivity transition from 8/12-fiber MTP connectors to duplex LC connectors.



Ordering Information

P/N	EN-SFP28-LR-xx	EN-SFP28-LRi-xx
Product Description	25Gbps 1310nm singlemode SFP28 Transceiver	25Gbps 1310nm singlemode SFP28 Transceiver, I-Temp
Data Rate (Bit/s)	25G	25G
TX	1310nm DFB	1310nm DFB
RX	PIN	PIN
Reach	10 km	10 km
Interface	Duplex LC	Duplex LC
Output Power (dBm)	-7~2	-7~2
Sensitivity (dBm)	-12.3	-12.3
Temperature (℃)	0~70	-45~85
Power consumption (w)	<1.5W	<1.5W

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 is compatible with Evertz, EN-SFP10GIDL-JREX refers to Industrial Temperature, and is compatible with Juniper EX Series
** Please note pricing is the same for most of the NEMs including Cisco, Juniper, F5, and Fortinet, except HP, and 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, NEtInsight, 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 SPECIFIACTIONS.

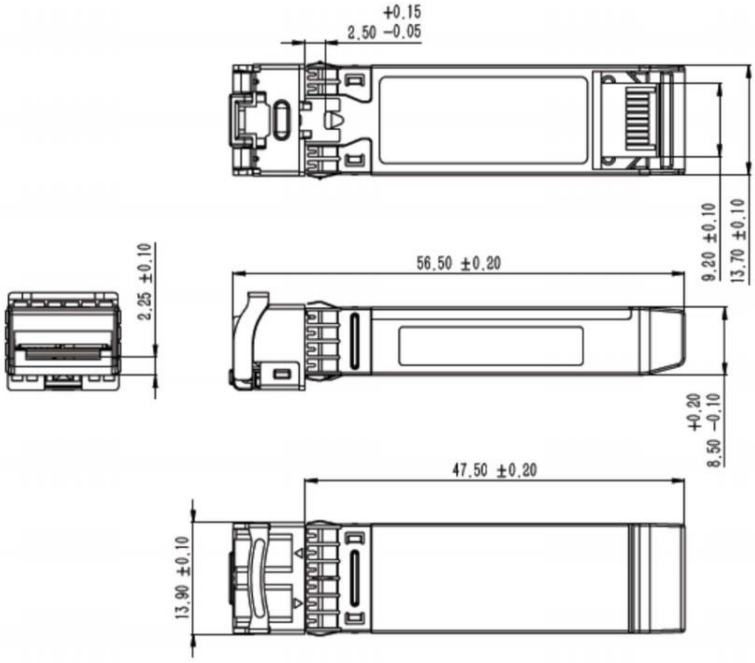
Recommended Operating Conditions

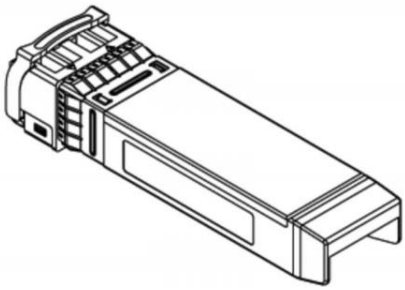
Parameter	Symbol	Min.	Typ	Max.	Unit
Operating Case Temperature	Tc	0		70	℃
Supply Voltage	V_{cc}	3.14	3.3	3.47	V
Power Dissipation	Pd			1.5	W
Bit Rate	BR		25.78		Gbps

Optical Characteristics

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Transmitter						
Bit Rate	Br		25.78	-	Gbps	
Center Wavelength	λC	1295	1310	1325	nm	
RMS Spectral Width	λrms			1.0	nm	
Average Launch Power Tx_off	Poff			-30	dBm	
Average Launch Power	PAVG	-7.0		2.0	dBm	1
Extinction Ratio	ER	3.0			dB	
Optical return loss tolerance				12	dB	
Receiver						
Bit Rate	Br		25.78	-	Gbps	
Wavelength Range	λC	1295		1325	nm	
Overload Input Optical Power	Pmax	2.0			dBm	
Receiver Sensitivity in OMA	SEN			-12.3	dBm	2
Average Receive Power	Pin	-13.3		2.0	dBm	
Signal Loss Assert Threshold	LOSA	-30			dBm	
Signal Loss Deassert	LOSD			-16	dBm	
LOS Hysteresis	LOSH	0.5		6	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

Office: 1-800-967-1672

Fax : 1-855-201-7283

mailto:sales@ecin.ca

www.ecin.ca