

1.6T DR8/2*DR4/2*FR4 Optical Engine

Features

- Compliant with IEEE 802.3dj
- Compliant with OSFP MSA HW Rev 5.0
- Operating case temperature 0 to 70°C
- Two wire serial Interface with digital diagnostic monitoring
- RoHS 2.0 compliant

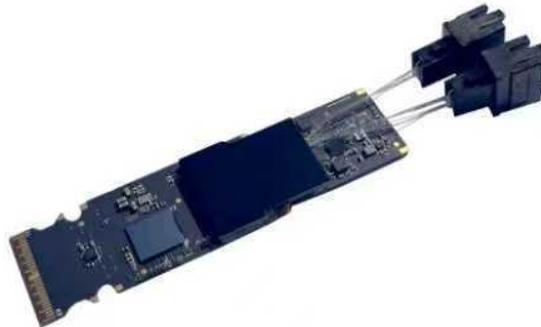
Applications

- 1.6T Ethernet
- InfiniBand Interconnects
- Data Center and Enterprise Networking
- Cloud Networks

Product descriptions:

1.6T DR8/2xDR4 (Data Center Reach 8-lane) OSFP PAM4 Optical Transceiver is a small form-factor, high speed, and low power consumption product targeted for use in optical interconnects for data communications applications. The high bandwidth module supports dual 800G Ethernet or InfiniBand connections, or a single 1.6T Ethernet or InfiniBand connection over parallel single-mode fiber links up to 500m (DR8/2xDR4)

Type	Package	Data Rate	Connector	Distance	Output Power	Power Consumption	ER	TDECQ	Receive Power
1.6T DR8	OSFP	8*224Gbps	MPO-16	500m	-3.1~4dBm per lane	26W	>3.5dB	<3.4dB	-6.3~4dBm per lane
1.6T 2*DR4			Dual MPO-12	500m	-3.1~4dBm per lane	26W	>3.5dB	<3.4dB	-6.3~4dBm per lane
1.6T 2*FR4			Dual Duplex LC	2km	-2.2~4.9dBm per lane	26W	>3.5dB	<3.4dB	-6.2~4.9dBm per lane



800G DR8/2*DR4/2*FR4 Optical Engine

Features

- Compliant with IEEE802.3cu-2021
- Compliant with OSFP MSA HW Rev 5.0
- Operating case temperature 0 to 70°C
- Two wire serial Interface with digital diagnostic monitoring
- RoHS 2.0 compliant

Applications

- 800G Ethernet
- InfiniBand Interconnects
- Data Center and Enterprise Networking
- Cloud Networks

Product descriptions:

800Gb/s OSFP DR8/2XDR4 (Data Center Reach 8-lane) Optical Transceiver is a small form-factor, high speed, and low power consumption product targeted for use in optical interconnects for data communications applications. The high bandwidth module supports dual 400G Ethernet connections, octal 100G Ethernet connections, or a single 800G Ethernet connection over parallel single-mode fiber links up to 500m. The module also can be configured via software control for half-rate operation as a 400G (400GbE, 2x200GbE breakout, or 8x50GbE breakout) optical transceiver for applications that require backwards compatibility.

Type	Package	Data Rate	Connector	Distance	Output Power	Power Consumption	ER	TDECQ	Receive Power
800G DR8	OSFP	8*112Gbps	MPO-16	500m	-2.9~4dBm per lane	16W	>3.5dB	<3dB	-5.9~4dBm per lane
800G 2*DR4			Dual MPO-12	500m	-2.9~4dBm per lane	16W	>3.5dB	<3dB	-5.9~4dBm per lane
800G 2*FR4			Dual Duplex LC	2km	-3.2~4.4dBm per lane	16W	>3.5dB	<3dB	-7.1~4.4dBm per lane



CPO External Laser Module (ELSFP)

Features

- Include 8 channels of Continuous Wave (CW) lasers
- OIF ELSFP IA CMIS 5.1 compliant
- Build in blind mate optical and electrical connectors
- Polarization maintaining optical connector
- System and eye safety support
- Single 3.3V power supply
- RoHS 2.0 compliant
- Operating case temperature 0 to 70°C

Applications

- Next-generation 51.2T and beyond Ethernet switches for hyperscale data centers.
- High-performance AI/ML accelerator clusters (GPU/TPU interconnects).
- Data Center Network Interface Cards (NICs) and high-performance computing fabric.
- Future high-capacity telecom core routers.

Description

External Laser Small Form Pluggable (ELSFP) is an external laser source architecture that complements and extends CPO deployments, enabling improved thermal management, serviceability, and flexible laser placement in high-density systems. In ELSFP-based architectures, precise optical interfaces and reliable laser sources are essential for efficiently coupling laser output into optical fibers while maintaining low loss, stable polarization, and consistent performance.

Type	Package	Channel	Output Power	Wavelength	Power Consumption
VHP	ELSFP	8ch	>20dBm per lane	1311nm	10W
UHP		8ch	>23dBm per lane	1311nm	30W



Fast Tunable Laser

Features

- Integrated SGDBR Laser with SOA
- Full C band wavelength tunable
- Build in Etalon and PM fiber
- Operating case temperature 0 to 70°C
- RoHS 2.0 compliant

Applications

- Optical Fiber Sensing
- Medical Detection
- Coherent Lidar

Product descriptions:

This full C-band tunable laser incorporates an monolithic InP chip that integrates a tunable SGDBR laser with a semiconductor optical amplifier(SOA) .The SGDBR laser is an electronically tuned device that can address any wavelength in the C- Band.Since no mechanical or thermal adjustments are necessary,wavelength channel switching is very fast.The devices are packaged into a compact,low-profile hermetically sealed package,with an internal optical isolator.

Connector	Output Power	Wavelength Range	Tuning frequency	Linewidth
Customization	>10dBm	1525~1567nm	100~200Hz	<5MHz



EugenLight Technologies

www.eugenlight.com

Email: sales@eugenlight.com

Optoelectronics Integration Empowers Optical Interconnection

Integrable Tunable Laser Assembly (ITLA)

Features

- Full C /L/C+L band tunable source
- SOA integrated
- Operating case temperature 0 to 70 °C
- RoHS 2.0 compliant
- Polarization maintaining fiber
- Compliant with OIF-ITLA-MSA-01.3 and OIF-Micro-ITLA-01.1 standard

Applications

- DWDM system
- Optical Transport Network
- Data Center Interconnect
- Coherent Optical Communication

Product descriptions:

The ITLA tunable laser is a wavelength-tunable laser module covering the C or L band or C+L band, designed based on the OIF ITLA standard. This laser module integrates laser and control components onto a circuit board. Through an RS232 protocol interface, users can configure the laser's operating states and parameters, including wavelength tuning and variable optical power.

Type	Package	Connector	Output Power	Wavelength Range	Channel Spacing	Power Consumption	RIN	Linewidth
C Band	Nano ITLA	FC/APC Fiber	>16dBm	1524.5~1572.06nm	50G/100G	4.5W	<-140dB	<300kHz
L Band				1568.11~1611.79nm	50G/100G	4.5W	<-140dB	<300kHz
C+L Band				1523.72~1572.06nm &1575.37~1626.21nm	100G	4.5W	<-140dB	<300kHz



EugenLight Technologies

www.eugenlight.com

Email: sales@eugenlight.com

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