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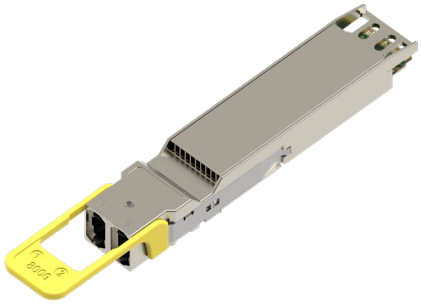


800G ZEROFLAP OPTICAL TRANSCEIVER

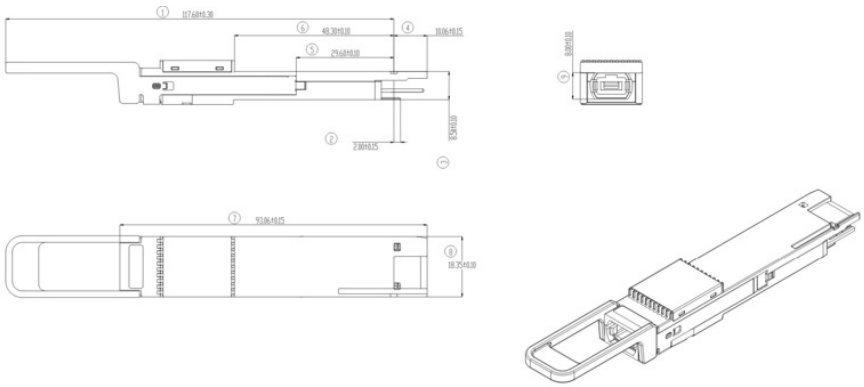
2 x 400GBASE-DR4
ZeroFlap Transceiver

800Gbps OSFP IHS, 2xDR4, 500m

The Credo ZeroFlap 2x400GBASE-DR4 Optical Transceiver is specifically designed for use in AI fabrics and data center networks where enhanced reliability and visibility are essential. When used in conjunction with Credo PILOT software and integrated with the ZeroFlap Host SDK for telemetry harvesting and coordination, the ZeroFlap 800G 2xDR4 Optical Transceiver forms an integral part of the Credo's complete ZeroFlap networking solution.

Featuring optical performance compliant with IEEE 802.3-2022 Clause 124.7, the ZeroFlap 800G 2xDR4 Optical Transceiver gives network operators flexibility to deploy optical connections up to 500m using parallel single mode fiber with MPO-12 optical connections. Enhanced link telemetry reporting and autonomous link health monitoring provide complete network visibility and offers advanced warning for impending problems. The non-volatile event log embedded in the transceiver is a critical resource for accurately tracing historical network events, enabling efficient cluster maintenance.

The OSFP form factor with integrated closed top heat-sink is designed for use with 800G host ports supporting eight (8) electrical lanes of 100Gbps following the IEEE 400GAUI-4 C2M standard. The optical interface employs two sets of four (4) optical lanes of 100Gbps using 1310nm wavelengths.



Features

- 2x400Gbps over parallel SMF
- Up to 500m transmission
- 1310nm Wavelength
- Dual MPO12 – APC Connectors
- ZeroFlap Link Telemetry
- Optical Link Health Monitoring
- FEC monitor, MPI detection
- Non-volatile event logging
- Remote peer communication
- Hitless firmware update
- Hot Pluggable
- Operating Temp 0-70oC
- RoHS-6 Compliant

Supported Standards

- Common Management Interface Specification (CMIS) v5.1
- OSFP MSA Rev 5.0
- IEEE 400GBASE-DR4
- IEEE 400GAUI-4
- OIF CEI-112G-VSR-PAM4

Product Details

Parameter	Value	Comments
Module Form Factor	OSFP Closed Top Heatsink	OSFP MSA Rev 5.0
Number of Optical Lanes	8 TX and 8 RX	2 x 400GBASE-DR4
Number of Electrical Lanes	8 TX and 8 RX	2 x 400GAUI-4, CEI-112G-VSR-PAM4
Maximum Aggregate Data Rate	850 Gb/s	
Electrical Interface and Pin-out	60-pin edge connector	OSFP MSA, Rev 5.0
Optical Interface	Type 2: Dual MPO12/APC	OSFP MSA, Rev 5.0
Fiber Type	Parallel Single Mode Fiber	
Maximum Power Consumption	16W	
Management Interface	Serial I²C	CMIS v5.1, 400 kHz maximum frequency

Ordering Information

Part Number	Form Factor	Data Rate	Distance (m)	Wavelength (nm)	Voltage (V)	Temperature (°C)
CFZ8D8S2M12A-A1-HW	OSFP	2x400Gbps	500	1310	3.3	0-70

About Credo

Credo's mission is to advance high-speed connectivity solutions that deliver optimized performance, reliability, energy efficiency, and security for the next generation of AI driven applications, cloud computing, and hyperscale networks.

Optimized for both optical and electrical applications, our solutions support port speeds up to 1.6Tb. At the core of our technology is our proprietary Serializer/Deserializer (SerDes) IP. Our diverse solutions portfolio includes system-level products such as Active Electrical Cables (AECs), a range of Integrated Circuits, including Retimers, Optical DSPs, SerDes chipsets, and SerDes IP Licensing.

For more information please visit **www.credosemi.com**
or email **sales@credosemi.com**

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