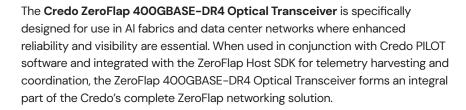


**400G ZEROFLAP OPTICAL TRANSCEIVER** 

## 400GBASE-DR4

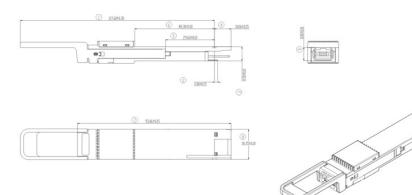
# ZeroFlap Transceiver

400Gbps QSFP-DD, DR4, 500m



Featuring optical performance compliant with IEEE 802.3–2022 Clause 124.7, the ZeroFlap 400GBASE–DR4 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 QSFP-DD form factor is designed for use with 400G host ports supporting eight (8) electrical lanes of 50Gbps following the IEEE 400GAUI-8 C2M standard. The optical interface employs four (4) optical lanes of 100Gbps using 1310nm wavelengths.





#### **Features**

- · 400Gbps over parallel SMF
- Up to 500m transmission
- · 1310nm Wavelength
- MPO12 APC Fiber Connection
- · 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
- QSFP-DD MSA v7.0
- IEEE 400GBASE-DR4
- IEEE 200GBASE-DR2
- IEEE 400GAUI-8
- IEEE 200GAUI-4
- OIF CEI-56G-VSR-PAM4

#### **Product Details**

Parameter	Value	Comments	
Module Form Factor	QSFP-DD	QSFP-DD MSA, Rev 7.0	
Number of Optical Lanes	4 TX and 4 RX	400GBASE-DR4	
Number of Electrical Lanes	8 TX and 8 RX	400GAUI-8, CEI-56G-VSR-PAM4	
Maximum Aggregate Data Rate	425 Gb/s		
Electrical Interface and Pin-out	76-pin edge connector	QSFP-DD MSA, Rev 7.0	
Optical Interface	MPO12/APC		
Fiber Type	Parallel Single Mode Fiber		
Maximum Power Consumption	9W		
Management Interface	Serial I <sup>2</sup> C	CMIS v5.1, 400 kHz maximum frequency	

### **Ordering Information**

Part Number	Form Factor	Data Rate	Distance (m)	Wavelength (nm)	Voltage (V)	Temperature (°C)
CFZ4D4S1M12E-A1-HW	QSFP-DD	400Gbps	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 Al 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 <u>www.credosemi.com</u> or email <u>sales@credosemi.com</u>

