

GIGALIGHT 2025

NEWS PAPER



Open Optical Network Device Explorer

Gigalight 2025 - 800G AI&DC New Power

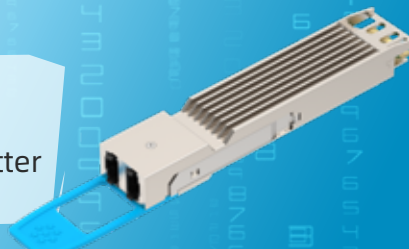
800G QSFP-DD FR8

- Dual-fiber transmission up to 2km
- Dual-fiber LC interface
- Integrated 8-channel LWDM TOSA



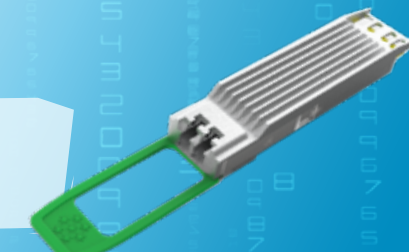
800G OSFP XPSM8/8ER

- Single-mode fiber, up to 30 km
- Dual MPO-12 interfaces
- 1310 nm silicon photonics transmitter +APD receiver



800G OSFP FR8

- Dual-fiber transmission up to 2km
- Dual-fiber LC interface
- Integrated 8-channel LWDM TOSA



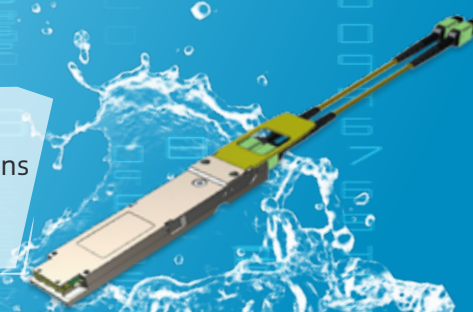
800G OSFP DR8 LPO+

- 1310 nm, 2X MPO-12/APC
- 500m
- Power consumption < 8.5W



Immersion Liquid-cooling 800G OSFP DR8

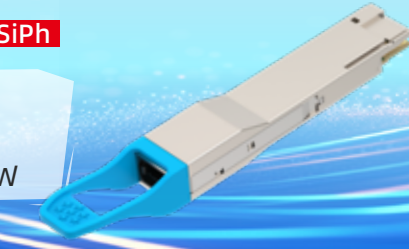
- Pressure-resistant housing design
- Connectivity: Pluggable Dual MPO-12, flexibly supporting liquid-cooled optical modules and AOC cabling applications
- Silicon Photonics (SiPh): High integration, low power consumption, cost efficiency, and high-speed transmission
- Compatible cooling liquids: Fluorinated fluids, mineral oil, silicone oil, etc.



Gigalight 2025 - New 400G AI & Data Center Products

400G QSFP-DD XPSM8 SiPh

- 10km SMF
- MPO16/APC interface
- 1310 nm Power consumption <11W



Liquid 400G QSFP112 DR4

- Pressure-resistant housing design
- Up to 500m on SMF
- Power consumption < 10W
- Pigtail MPO-12 receptacles



400G QSFP DD ER4-30

- 30km SMF
- Dual LC, LWDM4
- < 13W



Liquid 400G OSFP-RHS DR4

- Pressure-resistant housing design
- Up to 500m on SMF
- Power consumption < 10W
- Pigtail MPO-12 receptacles



1.6T CPO Solution to be Released in Q1 2026

1.6T DR16 CPO Silicon Photonics Engine

- 30km SMF
- Dual LC, LWDM4
- < 13W



EL-OSFP External Light Source Module

- Front-facing optical port design
- Supports 16-channel CWL high-power light sources



O-BAND DWDM INNOVATION PLAN AND SDI WAVELENGTH DIVISION SOLUTION

Open Network DWDM Economical Solutions

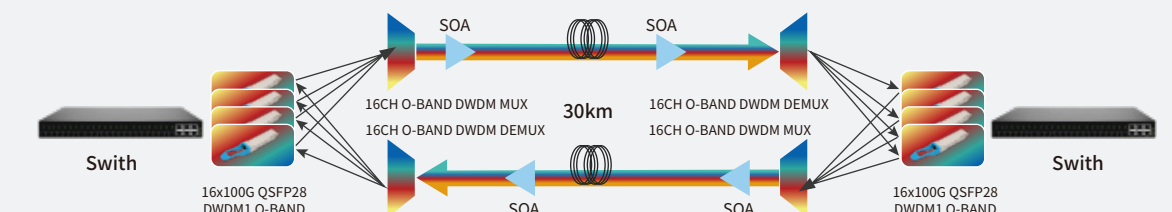
Color X 100G QSFP28 DWDM1 O-BAND and Subsystem



- 16 wavelengths O-Band DWDM, 200 GHz spacing
- 15km link transmission (including passive multiplexers) without any optical amplifiers
- Support 30km transmission under SOA amplification
- Transmit Power: +1 dBm
- Receiver Sensitivity: -9 dBm
- Optical Power Budget: 10 dB

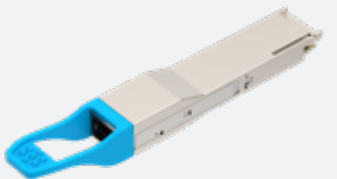
COLOR X 100G QSFP28 DWDM1 (O-band)

100G PAM4 Siph MZ technology 3.5W power consumption



Color X 400G QSFP-DD PSM DWDM4 O-BAND

- Supports 32-wavelength O-BAND DWDM, 200 GHz spacing
- Available in 8 product variants
- Supports 8 × 400GE transmission over 15 km links (including passive multiplexers) without any optical amplifiers
- Ideal for medium-to-short distance DCI scenarios
- Supports 30 km transmission under SOA amplification conditions



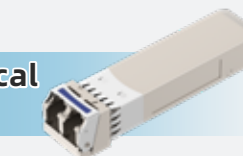
SDI Wavelength Division Solution

O-BAND DWDM 16-Wavelength 12G SDI, 100 GHz



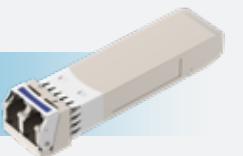
- Available in 16 product variants
- Supports 30 km transmission (APD at Receiver)
- Especially suitable for long-distance broadcast and media scenarios

12G-SDI CWDM Optical Module Products



- 1270nm - 1450nm, 10 wavelengths
- Transmission distance: 10km
- Supports SD/HD/3G/6G/12G SDI
- First 4 wavelengths support up to 30 km

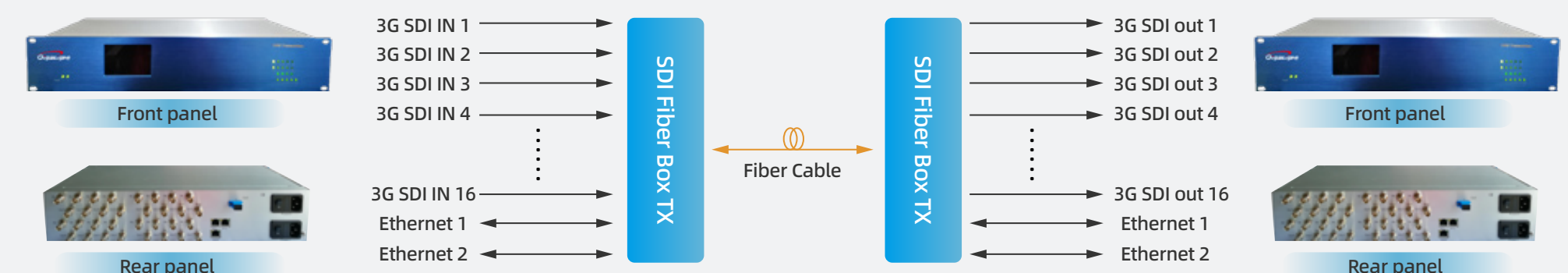
3G-SDI CWDM Optical Module Products



- 1270nm - 1570nm, 16 wavelengths
- Transmission distance: 80 km
- Supports SD/HD/3G SDI


16CH × 3G-SDI + 2-Port Gigabit + Network Management Video Optical Extender Solution

- The SDI-E-16 × 3G Optical Extender can transmit 16 channels of 3G-SDI (bit rate 2,970 Mbps) and 2 independent 1,000M IP signals
- Supports web-based network management and monitoring
- Fully compliant with CE standards
- Supports SMPTE 178 standard and has passed SDI pathological frame testing




NEW APPLICATIONS · NEW PRODUCTS COLLECTION


400G/200G QSFP-DD 2XFR4




400G QSFP-DD 2xFR4



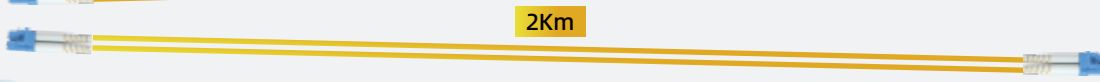
200G QSFP56 FR4



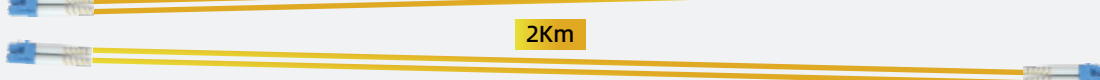
200G QSFP-DD 2xCWDM4



100G QSFP28 CWDM4

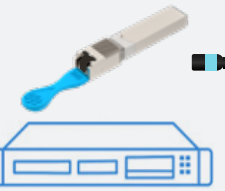


2Km

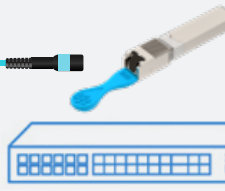


2Km

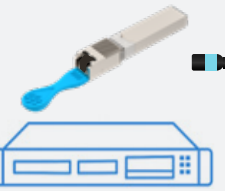
100G SFP56-DD SR2




AI Server




Rack Switch




200G QSFP56 SR2 2x100G PAM4



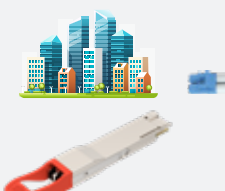
400G QSFP112 SR4




200G QSFP56 SR2




400G QSFP-DD ER4-30 nLan-WDM EML+APD



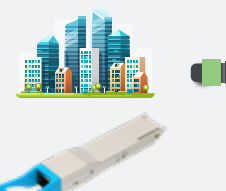
400G QSFP-DD ER4-30



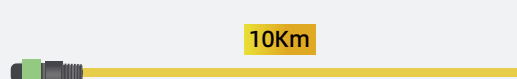
30Km



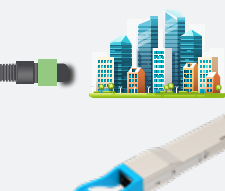
400G QSFP-DD XPSM8 SiPh



400G QSFP-DD XPSM8




10Km

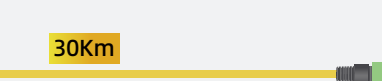


- 10km SMF
- MPO16/APC
- 1310nm
- < 11W


800G OSFP XPSM8/8ER



800G OSFP XPSM8/8ER




30Km

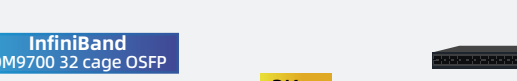


- 30km SMF
- 2xMPO12/APC
- 1310nm
- < 15W


800G OSFP/QSFP DD FR8




800G OSFP/QSFP DD FR8




2Km






2Km



Low-Latency 200G Optical transceivers


200G QSFP-DD eSR8



200G QSFP-DD eSR8

- Multimode OM4 50m
- Achieves BER better than 1E-12 @ Pre-FEC
- Host FEC can be disabled to reduce latency


200G QSFP-DD ePSM8



200G QSFP-DD ePSM8

- Single-Mode, 10km
- Achieves BER better than 1E-12 @ Pre-FEC,
- Host FEC can be disabled to reduce latency

100G QSFP28 BIDI ZR4



100G QSFP28 BIDI ZR4

- 80km SMF
- Single LC, LWDM4 EML
- PIN+SOA < 6W

100G QSFP28 PSM DWDM4 C-BAND



100G QSFP28 PSM DWDM4 C-BAND

- 10KM SMF
- MPO, DWDM EML
- PIN < 3.5W

100G SFP56-DD LR1/ER1



100G SFP56-DD LR1/ER1

- 100G PAM4, 1310nm EML
- PIN 10km/APD 30km
- < 3.5W

100G SFP112 LR1/ER1



100G SFP112 LR1/ER1

- 10km/30km SMF
- Dual LC, 1310nm
- < 3.5W

AI & DATA CENTER IMMERSION LIQUID-COOLING INTERCONNECT SOLUTION

Immersion Liquid-cooling 800G OSFP DR8 Silicon Photonics Module

- **Robust & Reliable:** Pressure-resistant sealed housing (>0.2 MPa) with patented design, ensuring superior heat dissipation and liquid-cooling adaptability.
- **Flexible Connectivity:** Pluggable Dual MPO12 pigtail, perfect for liquid-cooled modules and AOC cabling.
- **SiPh Advantages:** High integration, low power, cost efficiency, and ultra-high-speed performance.
- **Future-Proof:** Supports QSFP112, QSFP-DD, OSFP, OSFP RHS – scalable from 100G to 800G and ready for 1.6T.
- **Liquid Compatibility:** Works with fluorinated fluids, mineral oil, and silicone oil.



Single-Mode Silicon Photonics Liquid-Cooled Optical Module Series

Data Rate	Form Factor	States	Notes
400G DR4	QSFP112	samples	Inphi DSP + silicon solution
400G DR4	OSFP RHS	samples	Inphi DSP+ + silicon solution
800G DR8	OSFP	samples	Inphi DSP++ silicon solution

Immersion Liquid-Cooled Extenders

- Multi-Form Factor: SFP, QSFP, QSFP-DD, OSFP
- Wide Speed Coverage: 10G-800G

- **High-Speed Design:** Supports up to 0.5m extension with patented fish-shaped design
- **Wide Compatibility:** Works with QSFP28, QSFP-DD, OSFP, SFP112; 25G-800G and future 1.6T
- **Efficient Cooling:** 1.5W silent fan ensures excellent heat dissipation
- **Smart Indicators:** Visual monitoring for frequent port use, prolonging port life

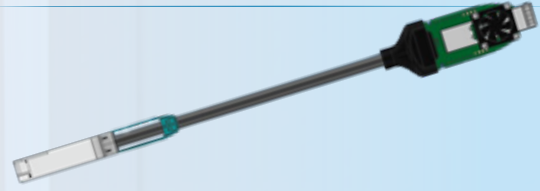
800G OSFP Liquid-Cooled Extender with Heat Sink



800G OSFP-RHS Liquid-Cooled Extender



800G QSFP-DD Liquid-Cooled Extender



100G SFP112 Liquid-Cooled Extender



400G QSFP-DD Liquid-Cooled Extender



200G QSFP56/100G QSFP28 Liquid-Cooled Extender



Immersion Liquid-Cooled DAC Product Line

25G/100G Liquid-Cooled DAC

- **Robust Design:** Shielded mesh and liquid-cooled DAC process, avoiding compatibility concerns with PVC-covered air-cooled DACs
- **Flexible Cabling:** Default 26AWG wires, other wire gauges supported

400G/800G Liquid-Cooled DAC/ACC

- **Durable Design:** Shielded mesh structure, compatible with both liquid-cooled and air-cooled environments
- **Tested Performance:** SI parameters verified under liquid-cooling conditions, ensuring reliable liquid-cooling application

