



### 100G New Products

This quarter, GIGALIGHT launched four types of 100G optical transceiver modules, including the industrial-grade 100G QSFP28 PSM4 transceiver for special environments, and the 100G FR1/LR1/ER1 Single Lambda transceivers, all of which can be used for medium and long-distance transmission in data centers. The immersion liquid-cooling 100G QSFP28 PSM4 transceiver assembly with MPO pig-tail will be launched in the next quarter.

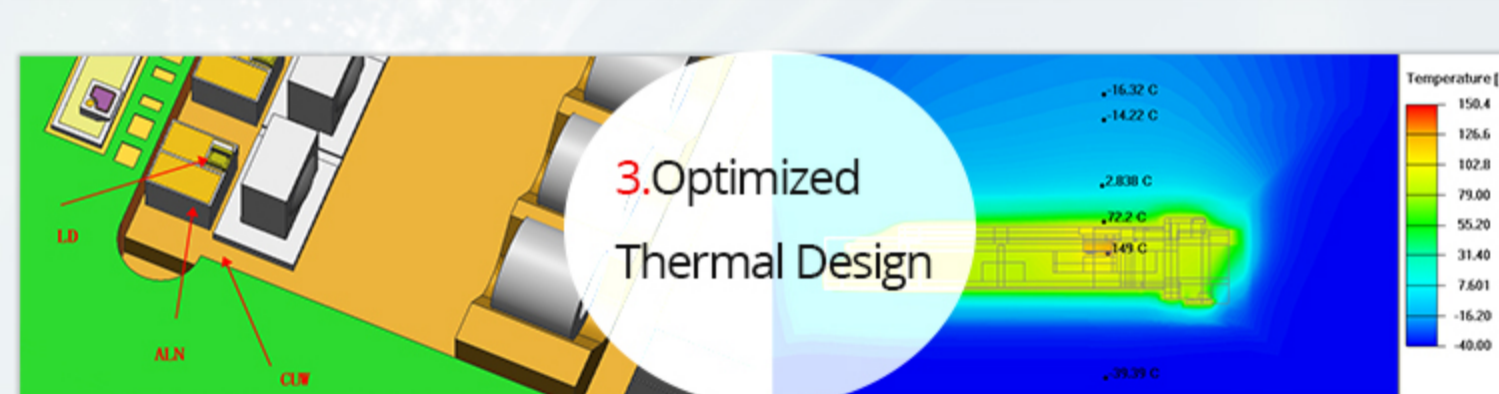
#### GIGALIGHT I-Temp 100G QSFP28 PSM4 Transceiver



On April 14, 2022, GIGALIGHT launched the industrial-grade (I-Temp) 100G QSFP28 PSM4 transceiver based on innovative COB optical design, which can meet the requirements of long-distance interconnection under harsh conditions of -40 to 85 °C, including data center and 5G fronthaul applications.

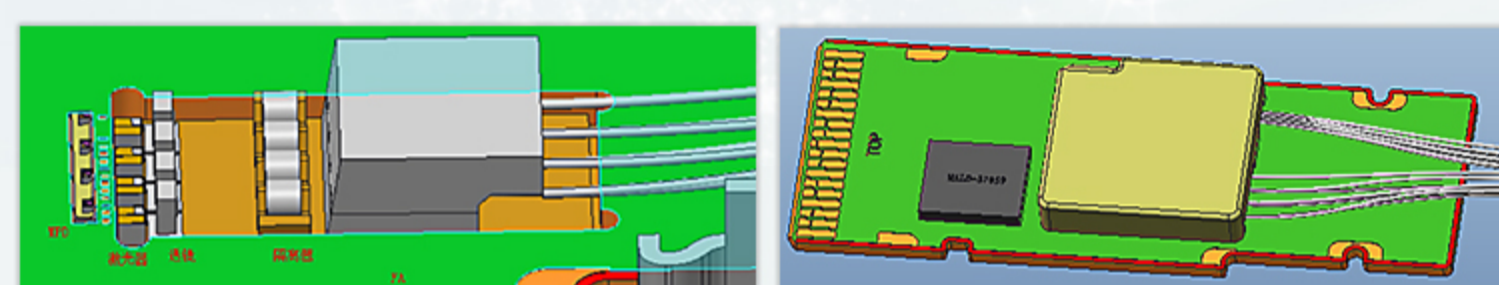
Further reading:  
Introduction of GIGALIGHT's Innovative COB Optics

1. Industrial-Grade Components
2. Fiber Arrays: 8° Tx & 45° Rx



- Adopts AlN carrier to dissipate heat through CuW
- Adopts large-area high-quality silicone for heat sink
- Smooth shell to enhance the heat dissipation effect

4. MPD monitors LD backlight for temperature compensation
5. Quasi-hermetic packaging to improve product reliability



#### GIGALIGHT 100G QSFP28 FR1/LR1/ER1 Transceivers

On February 28, 2022, GIGALIGHT launched the carrier-grade 100G QSFP28 FR1, LR1 and ER1 transceivers, which can replace the 100G QSFP28 CWDM4, LR4 and ER4 Lite transceivers to further reduce costs for data center interconnection.



- Single channel based on 100G PAM4 modulation
- Suitable for flexibility 400G-to-4x100G interconnections
- Simple design of one optical chip for Tx and one for Rx to reduce cost
- Simpler TO air-tight package for cost saving

### 2022Q1 Discounted Products



**100G QSFP28 ER4 lite 30km/40km**

High-sensitivity APD  
High-performance version available  
Comparable to standard 100GBASE-ER4

\$777

[Order Now >](#)



**100G QSFP28 LR4 10km/20km**

Rx AWG & COB  
Streamlined BOM  
Lean Cost Control

\$222

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**100G QSFP28 CWDM4 2km**

Optimized BOX solution  
Control costs efficiently

\$111

[Order Now >](#)

### New Technology Perspective

#### 100G QSFP28 ZR4 vs 100G CFP/CFP2 DCO

		
Specifications	100G QSFP28 ZR4	100G CFP/CFP2 DCO
Wavelength	LWDM4	DWDM C-band 50Ghz Tunable
Modulation	NRZ	DP-QPSK
Reach	90km	1200km (Win)
HOST FEC	On	On
Temperature	0~70°C	0~70°C
Power Consumption	< 6W (Win)	<24W
DCM	No	No
EDFA	No (Win)	Yes
Cost	\$ (Win)	\$\$\$
Expandable	No	Yes (Win)

### Other Hot Products

#### Short-Reach Data Center Intraconnection



\*If you are interested in our products or solutions, please reply to the email directly to explain your needs, and our sales manager will get in touch with you as soon as possible!



Open Optical Network Device Explorer

