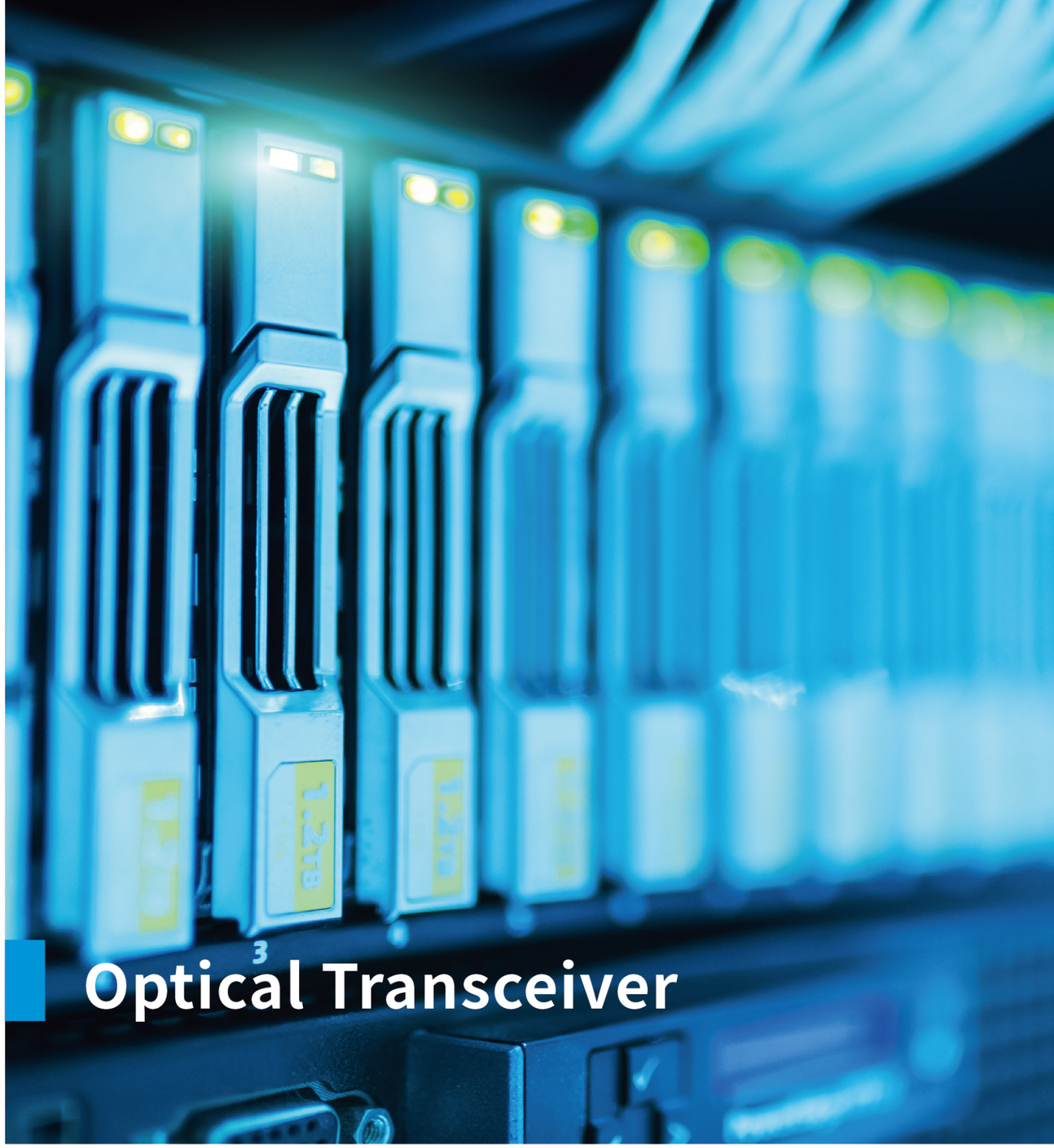

# Optical Transceiver

Smart Link Better Life.


Yangtze Optical Fibre and Cable Joint Stock Limited Company

Stock Code: 601869.SH 06869.HK

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LinkedIn: Yangtze Optical Fibre and Cable Joint Stock Limited Company


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WeChat

Smart Link Better Life.

Smart Link Better Life.

Yangtze Optical Fibre and Cable Joint Stock Limited Company (also known as 'YOFC' ) was established in Wuhan, Hubei Province in May 1988. It's an innovative technology-driven enterprise specialized in manufacturing optical fibre preforms, optical fibres, optical fibre cables and providing integrated solution services.

YOFC was listed on the Main Board of Hong Kong Stock Exchange on December 10, 2014(Stock Code: 06869.HK), and listed on the Main Board of Shanghai Stock Exchange on July 20, 2018 (Stock Code: 601869.SH), which made YOFC the only A&H shares dual-listed company in China' s optical fibre and cable industry and the first one in Hubei Province.

YOFC mainly produces and sells different types of optical fibre preforms, optical fibres and optical fibre cables that are widely applied in telecommunications industry, customized optical modules, specialty optical fibres, active optical cables, submarine cables, RF coaxial cables and accessories, etc. YOFC is also equipped with some solutions and services such as system integration and communication engineering design. Providing a variety of different products and solutions for world' s telecommunications industry and other industries (e.g. Public utility, Transportation, Oil & Chemistry, Medication etc.) , YOFC has offered its products and services to over 70 countries and regions around the world.

It has made the great strides from the initial technology cooperation to the current self-innovation since its inception to contribute to revitalizing national industry. YOFC masters 3 major preform manufacturing techniques: PCVD/O-VD/VAD, and has been honored with many awards & reputations such as National Enterprise Technical Center, National First Batch Smart Manufacturing Pilot Enterprise, Industrial Internet Platform Integrated Innovative Application Pilot Demonstration Project, the Second Class National Science and Technology Progress Award(3 times), the China Quality Award, the European Quality Award, etc. In addition, YOFC has obtained over 600 national-granted patents and several foreign invention patents from Europe, US and Japan, and boasted State Key Laboratory of Optical Fibre and Cable Manufacture Technology. It's also one of the members in ITU-T and IEC in setting international standards.

Guided by the mission of 'Smart Link Better Life' , YOFC devotes itself to becoming the leader in information transmission and smart link with its core values 'Client Focus Accountability Innovation Stakeholder Benefits' in the center of everything it does. YOFC builds its strategies in the following 5 aspects: Organic growth of the preform, optical fibre and cable business,technological innovation and smart manufacturing, internationalization, relevant diversification and capital optimization.

## Whole Series Optical Transceivers

### Access Optical Transceivers

- GPON series optical transceivers
- XGPON/XGSPON series optical transceivers
- 10G EPON series optical transceivers
- TWDM PON series optical transceivers

### Wireless Optical Transceivers

- BIDI series optical transceivers
- SFP+ series optical transceivers
- SFP28 series optical transceivers
- QSFP28 series optical transceivers

### Transmission Optical Transceivers

- CFPx series optical transceivers
- SFP+ (TDM/CWDM/DWDM/Tunable) series optical transceivers
- XFP (TDM/CWDM/DWDM/Tunable) series optical transceivers

### Data Center Optical Transceivers

- QSFP+ series optical transceivers（SR4/PSM4/LR4)
- QSFP28 series optical transceivers (SR4/PSM4/CWDM4/LR4)
- 10G/25G/40G/100G AOC
- SFP+ series optical transceivers
- SFP28 series optical transceivers

## Mirco-optics packaging process platform, high speed optical transceiver development ability

- Optical design ability
- Process design ability
- Thermal design ability
- RF design ability
- Full-automatic wire bond and die bond equipment
- Full-automatic coupling and test system

## Complete Quality Management System

- YOFC received the ISO 9002 quality system certification In 1993
- YOFC adopts ERP system in 2001
- YOFC received ISO 9001:2000 international standard certification in 2002
- YOFC received the ISO 9001:2008 certificate issued by DEKRA of Germany in 2010

YOFC
Smart Link Better Life.

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12 / **1.25G**
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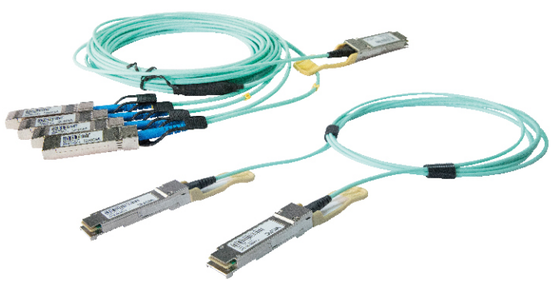
# AOC

## Application

10G/25G/40G/100G Ethernet，Data Center, FIBRE Channel and other optical links



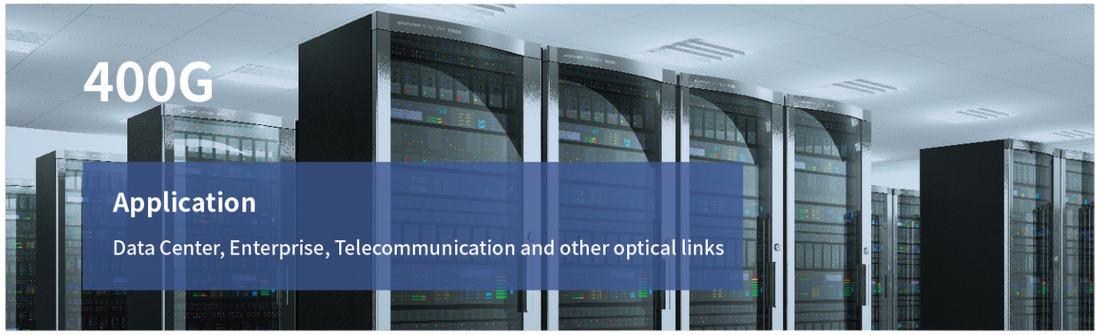
## Product Feature

- Contain 10Gbps/25Gbps/40Gbps and Breakout AOC/100Gbps and Breakout AOC
- Digital diagnostics functions
- Transmit distance 1~100m
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Receiver | Part NO. |
|---|---|---|---|---|---|---|---|---|
| 10G AOC | SFP+ | AOC | 10.3G | 850nm | 1m~100m | VCSEL | PIN | Y-16000C30X |
| 25G AOC | SFP28 | AOC | 25.78G | 850nm | 1m~100m | VCSEL | PIN | Y-27000C30X |
| 40G AOC | QSFP+ | AOC | 41.2G | 850nm | 1m~100m | VCSEL | PIN | Y-48770C30X |
| 40G AOC Breakout | QSFP+ TO 4X SFP+ | AOC | 4X10.3G | 850nm | 1m~100m | VCSEL | PIN | Y-48770C30X |
| 100G AOC | QSFP28 | AOC | 100G | 850nm | 1m~100m | VCSEL | PIN | Y-59770C30X |
| 100G AOC Breakout | QSFP28 TO 4X SFP28 | AOC | 4X25.78G | 850nm | 1m~100m | VCSEL | PIN | Y-59770C30X |





# 400G

## Application

Data Center, Enterprise, Telecommunication and other optical links

## Product Feature

- Hot-pluggable, digital diagnostics functions
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 400G SR8 | QSFP-DD | MPO-16 | 400G | 850nm | 100m | VCSEL | -6.0~4 | PIN | -7.9~4 | Y-6BA40C000 |
| 400G DR4 | QSFP-DD | MPO-12 | 400G | 1310nm | 500m | EML | -2.9~4 | PIN | -5.9~4 | Y-6BA62C000 |
| 400G FR4 | QSFP-DD | LC | 400G | CWDM4 | 2km | EML | -3.3~3.5 | PIN | -7.3~3.5 | Y-6BA73C000 |
| 400G LR4 | QSFP-DD | LC | 400G | CWDM4 | 10km | EML | -1.4~4.5 | PIN | -7.7~4.5 | Y-6BA84C000 |

# 200G

## Application

Data Center, Enterprise, Telecommunication and other optical links

## Product Feature

- Hot-pluggable, digital diagnostics functions
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C

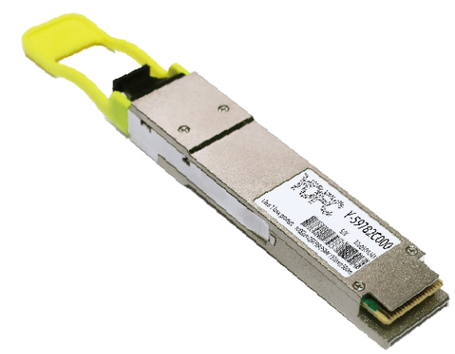
## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 200G SR4 | QSFP-56 | MPO-12 | 200G | 850nm | 100m | VCSEL | -6.0~6 | PIN | -7.9~4 | Y-JA000C000 |

# 100G

## Application

100G Ethernet, Metro, SDH/SONET, Data Center and other optical links



## Product Feature

- Compliant QSFP28 MSA, IEEE 802.3bm 100GBASE-SR4/LR4/ER4, OTN OTU3/OTU4
- Hot-pluggable, digital diagnostics functions
- 4 channels full-duplex
- Up to 28Gb/s per channel
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 100GBASE-SR4 | QSFP28 | MPO | 100G | 850nm | 100m | VCSEL | -8.4~2.4dBm | PIN | -10.3~2.4dBm | Y-59770C000 |
| 100GBASE-CWDM4 | QSFP28 | LC | 100G | CWDM | 2km | DFB | -6.5~2.5dBm | PIN | -11.5~2.5dBm | Y-59683C000 |
| 100GBASE-PSM4 | QSFP28 | MPO | 100G | 1310nm | 500m | DFB | -9.4~2dBm | PIN | -12.6~2dBm | Y-59782C000 |
| 100GBASE-LR4 | QSFP28 | LC | 100G | LWDM | 10km | EML | -4.3~4.5dBm | PIN | -10.6~4.5dBm | Y-59674C000 |
| 100G LR1 | QSFP28 | LC | 100G | 1310nm | 10km | EML | -- | PIN | -- | Y-59014C000 |
| 100G ER4 lite | QSFP28 | LC | 100G | 1294nm-1310nm | 30km | EML | -2.9~4.5dBm | APD | -15~-4dBm | Y-59677C000 |
| 100G ER4 | QSFP28 | LC | 100G | 1294nm-1310nm | 40km | EML | -2.9~2.9dBm | SOA+PIN | -21~-3dBm | Y-59678C000 |
| 100G ZR4 | QSFP28 | LC | 100G | 1294nm-1310nm | 80km | EML | 2~6.5dBm | SOA+PIN | -28~-3.5dBm | Y-5967AC000 |

# 50G

## Application

50G Ethernet, 5G backhaul, CPRI, Data Center and other optical links

## Product Feature

- Hot-pluggable, digital diagnostics functions
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Receiver | Part NO. |
|---|---|---|---|---|---|---|---|---|
| 50G LR Duplex | QSFP28 | LC | 50G | 1310nm | 10km | DFB | PIN | Y-5F014C000 |
| 50G LR BIDI | QSFP28 | LC | 50G | 1270nm/1330nm | 10km | DFB | PIN | Y-5F694C000 |
| 50G ER Duplex | QSFP28 | LC | 50G | 1310nm | 40km | EML | APD | Y-5F018C000 |
| 50G ER BIDI | QSFP28 | LC | 50G | 1295nm/1305nm | 40km | EML | APD | Y-5F958C000 |



# 40G

## Application

40G Ethernet, Metro, SDH/SONET, Data Center and other optical links

## Product Feature

- Compliant QSFP MSA, IEEE 802.3.ba 40GBASE-SR4/LR4/ER4
- Hot-pluggable, digital diagnostics functions
- 4 channels full-duplex
- Up to 11.2Gb/s per channel
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 40GBASE-SR4 | QSFP+ | MPO | 40G | 850nm | 100m | VCSEL | -7.6~-1dBm | PIN | -9.5~2.4dBm | Y-48770C000 |
| 40GBASE-eSR4 | QSFP+ | MPO | 40G | 850nm | 300m | VCSEL | -7.6~-1dBm | PIN | -9.9~2.4dBm | Y-48771C000 |
| 40GBASE-LR4 | QSFP+ | LC | 40G | CWDM | 2km | DFB | -7~2.3dBm | PIN | -11.7~2.3dbm | Y-48683C000 |
| 40GBASE-PIR4 | QSFP+ | MPO | 40G | 1310nm | 2km | FP | -5.5~1.5dBm | PIN | -11.5~2.3dbm | Y-48783C000 |
| 40GBASE-PLR4 | QSFP+ | MPO | 40G | 1310nm | 10km | DFB | -5.5~1.5dBm | PIN | -12.6~2.3dbm | Y-48784C000 |
| 40GBASE-LR4 | QSFP+ | LC | 40G | CWDM | 10km | DFB | -7~2.3dBm | PIN | -13.7~2.3dBm | Y-48684C000 |
| 40GBASE-ER4 | QSFP+ | LC | 40G | CWDM | 40km | DFB | -2.7~4.5dBm | APD | -19~4.5dBm | Y-48688C000 |

# 25G

## Application

25G Ethernet, Metro, Wireless, SDH/SONET, Data Center and other optical links

## Product Feature

- Up to 28Gb/s bi-directional data links
  Hot-pluggable SFP+ footprint, digital diagnostics functions
- Duplex LC connector
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C or -40~85°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 25GBASE-SR Ethernet | SFP28 | LC | 25.78G | 850nm | 100m(om4) | VCSEL | -8.4~2.4 | PIN | -10.3~2.4 | Y-27000C (E) 000 |
| 25Gbase-LR | SFP28 | LC | 25.78G | 1310nm | 10km | DFB | -4.5~2 | PIN | -11.4~2 | Y-27014I000 |
| 25Gbase-LR | SFP28 | LC | 25.78G | 1310nm | 300m | DFB | -7~2 | PIN | -8.5~2 | Y-27011I000 |
| CWDM 25Gbase-LR | SFP28 | LC | 25.78G | 1271nm | 300m | DFB | -2.5~2.5 | PIN | -10.3~2 | Y-27031I000 |
| CWDM 25Gbase-LR | SFP28 | LC | 25.78G | 1291nm | 300m | DFB | -2.5~2.5 | PIN | -10.3~2 | Y-27041I000 |
| CWDM 25Gbase-LR | SFP28 | LC | 25.78G | 1311nm | 300m | DFB | -2.5~2.5 | PIN | -10.3~2 | Y-27051I000 |
| CWDM 25Gbase-LR | SFP28 | LC | 25.78G | 1331nm | 300m | DFB | -2.5~2.5 | PIN | -10.3~2 | Y-27061I000 |
| 25Gbase-LR | SFP28 | LC | 25.78G | 1270nm/1330nm | 10km | DFB | -4.5~2 | PIN | -11.4~2 | Y-27691I000 |
| 25Gbase-LR | SFP28 | LC | 25.78G | 1330nm/1270nm | 10km | DFB | -4.5~2 | PIN | -11.4~2 | Y-27701I000 |
| Fiber channel | SFP28 | LC | 32G | 850nm | 100m(om4) | VCSEL | -8.4~2.4 | PIN | -10.3~2.4 | Y-2C000C (E) 000 |
| Fiber channel | SFP28 | LC | 32G | 1310nm | 10km | DFB | -4.5~2 | PIN | -11.4~2 | Y-2C014I000 |
| 25G LR LWDM | SFP28 | LC | 25G | 1269nm-1318nm | 10km | DFB | 0.5~6dBm | PIN | -14~2dBm | Y-27XX4I (C) 000 |
| 25G LR MWDM | SFP28 | LC | 25G | 1267nm-1375nm | 10km | DFB | 0.5~6dBm | PIN | -13~2dBm | Y-27XX4I000 |
| 25G LR DWDM | SFP28 | LC | 25G | O-band/C-band | 10km | EML | -1~6dBm | APD | -15~2dBm | Y-27XX4I (C) 000 |

# 10G

## Application

10G Ethernet, Metro, Access, Wireless, SDH/SONET, Data Center and other optical links

## Product Feature

- Compliant SFP+ MSA, IEEE 802.3.ae 10G Base-ZR/ZW, 10GBASE-ER/EW, 10GBASE-LR/LW, 10GBASE-SR/SW
- 6~11.3Gb/s bi-directional data links
- Hot-pluggable SFP+ footprint, digital diagnostics functions
- Up to 80km on 9/125um SMF, 300m over OM3, 100m over OM2
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C or -40~85°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 10GBASE-SR/SW | SFP+ | LC | 10G | 850nm | 300m | VCSEL | -6~-1dBm | PIN | -10~0.5dBm | Y-16001I000 |
| 10GBASE-LR/LW | SFP+ | LC | 10G | 1310nm | 2km | FP | -6~-0.5dBm | PIN | -14.4~0.5dBm | Y-16013I000 |
| 10GBASE-LR/LW | SFP+ | LC | 10G | 1310nm | 10km | DFB | -6~-0.5dBm | PIN | -14.4~0.5dBm | Y-16014I000 |
| 10GBASE-LR/LW | SFP+ | LC | 10G | 1310nm | 20km | DFB | -3~3dBm | PIN | -14.4~0.5dBm | Y-16016I000 |
| 10GBASE-ER/EW | SFP+ | LC | 10G | 1550nm | 40km | EML | -1~3dBm | PIN | -15.8~0.5dBm | Y-16028I000 |
| 10GBASE-ZR | SFP+ | LC | 10G | 1550nm | 80km | EML | 0~4dBm | APD | -23~-6dBm | Y-16029I000 |
| 10G BX10 | SFP+ | LC | 10G | 1270nm/1330nm | 10km | DFB | -6~-0.5dBm | PIN | -15~0.5dBm | Y-16694I000 |
| 10G BX10 | SFP+ | LC | 10G | 1330nm/1270nm | 10km | DFB | -6~-0.5dBm | PIN | -15~0.5dBm | Y-16704I000 |
| 10G BX20 | SFP+ | LC | 10G | 1270nm/1330nm | 20km | DFB | -3~3dBm | PIN | -15~0.5dBm | Y-16696I000 |
| 10G BX20 | SFP+ | LC | 10G | 1330nm/1270nm | 20km | DFB | -3~3dBm | PIN | -15~0.5dBm | Y-16706I000 |
| 10G BX40 | SFP+ | LC | 10G | 1270nm/1330nm | 40km | DFB | 0~5dBm | PIN | -15~0.5dBm | Y-16698I000 |
| 10G BX40 | SFP+ | LC | 10G | 1330nm/1270nm | 40km | DFB | 0~5dBm | PIN | -15~0.5dBm | Y-16708I000 |
| 10G BX60 | SFP+ | LC | 10G | 1270nm/1330nm | 60km | DFB | 0~5dBm | APD | -20~-6dBm | Y-16699I000 |
| 10G BX60 | SFP+ | LC | 10G | 1330nm/1270nm | 60km | DFB | 0~5dBm | APD | -20~-6dBm | Y-16709I000 |
| 10G BX80 | SFP+ | LC | 10G | 1490nm/1550nm | 80km | EML | 0~4dBm | APD | -24~-7dBm | Y-1669AI000 |

# 10G

## Application

10G Ethernet, Metro, Access, Wireless, SDH/SONET, and other optical links

## Product Feature

- Compliant XFP MSA, IEEE 802.3.ae 10G Base-ZR/ZW, 10GBASE-ER/EW, 10GBASE-LR/LW, 10GBASE-SR/SW, SONET OC-192, SDH STM-64, OTN OTU-2
- 9.95~11.3Gb/s bi-directional data links
- Hot-pluggable XFP footprint, digital diagnostics functions
- Up to 100km on 9/125um SMF, 300m over OM3, 100m over OM2
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C or -40~85°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 10GBASE-SR/SW | XFP | LC | 10G | 850nm | 300m | VCSEL | -6~-1dBm | PIN | -10~0.5dBm | Y-36001I000 |
| 10GBASE-LR/LW | XFP | LC | 10G | 1310nm | 10km | DFB | -6~-1dBm | PIN | -15~0.5dBm | Y-36014I000 |
| 10GBASE-ER/EW | XFP | LC | 10G | 1550nm | 40km | EML | -1~4dBm | PIN | -16.5~0.5dBm | Y-36028I000 |
| 10GBASE-ZR | XFP | LC | 10G | 1550nm | 80km | EML | 0~5dBm | APD | -24~-6dBm | Y-3602AI000 |
| 10GBASE-ZR | XFP | LC | 10G | 1550nm | 100km | EML | 1~5dBm | APD | -24~-6dBm | Y-3602BI000 |
| 10G BX10 | XFP | LC | 10G | 1270nm/1330nm | 10km | DFB | -5~0dBm | PIN | -15~0.5dBm | Y-36694I000 |
| 10G BX10 | XFP | LC | 10G | 1330nm/1270nm | 10km | DFB | -5~0dBm | PIN | -15~0.5dBm | Y-36704I000 |
| 10G BX20 | XFP | LC | 10G | 1270nm/1330nm | 20km | DFB | -3~2dBm | PIN | -15~0.5dBm | Y-36696I000 |
| 10G BX20 | XFP | LC | 10G | 1330nm/1270nm | 20km | DFB | -3~2dBm | PIN | -15~0.5dBm | Y-36706I000 |
| 10G BX40 | XFP | LC | 10G | 1270nm/1330nm | 40km | DFB | 0~5dBm | PIN | -15~0.5dBm | Y-36698I000 |
| 10G BX40 | XFP | LC | 10G | 1330nm/1270nm | 40km | DFB | 0~5dBm | PIN | -15~0.5dBm | Y-36708I000 |
| 10G BX60 | XFP | LC | 10G | 1270nm/1330nm | 60km | DFB | 0~5dBm | APD | -20~-6dBm | Y-36699I000 |
| 10G BX60 | XFP | LC | 10G | 1330nm/1270nm | 60km | DFB | 0~5dBm | APD | -20~-6dBm | Y-36709I000 |
| 10G BX80 | XFP | LC | 10G | 1490nm/1550nm | 80km | EML | 0~4dBm | APD | -24~-6dBm | Y-3671AI000 |
| 10G BX80 | XFP | LC | 10G | 1550nm/1490nm | 80km | EML | -1~3dBm | APD | -24~-6dBm | Y-3672AI000 |

# 2.5G

## Application

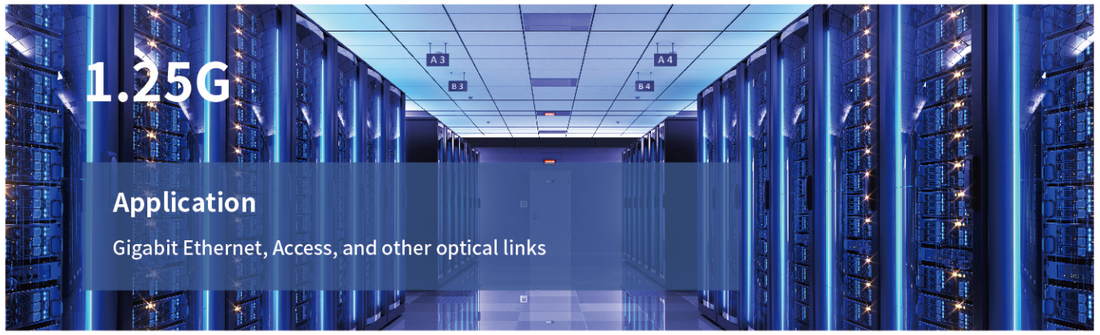
Gigabit Ethernet, Access, and other optical links

## Product Feature

- Compliant SFP MSA
- 2.5Gb/s bi-directional data links
- Hot-pluggable SFP footprint, digital diagnostics functions
- Support 300m to 80km transport
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C or -40~85°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.5G SR | SFP | LC | 2.5G | 850nm | 300m | VCSEL | -10~-3dBm | PIN | -17~-3dBm | Y-03001I000 |
| 2.5G LR | SFP | LC | 2.5G | 1310nm | 2km | FP | -10~-3dBm | PIN | -18~-3dBm | Y-03013I000 |
| 2.5G LR | SFP | LC | 2.5G | 1310nm | 20km | DFB | -5~0dBm | PIN | -18~0dBm | Y-03016I000 |
| 2.5G ER | SFP | LC | 2.5G | 1550nm | 40km | DFB | -2~3dBm | PIN | -18~0dBm | Y-03028I000 |
| 2.5G ZR | SFP | LC | 2.5G | 1550nm | 80km | DFB | -2~3dBm | APD | -28~-9dBm | Y-0302AI000 |
| 2.5G BX2 | SFP | LC | 2.5G | 1310nm/1550nm | 2km | FP | -10~-3dBm | PIN | -18~-3dBm | Y-03733I000 |
| 2.5G BX2 | SFP | LC | 2.5G | 1550nm/1310nm | 2km | FP | -10~-3dBm | PIN | -18~-3dBm | Y-03743I000 |
| 2.5G BX20 | SFP | LC | 2.5G | 1310nm/1550nm | 20km | DFB | -5~0dBm | PIN | -18~-3dBm | Y-03736I000 |
| 2.5G BX20 | SFP | LC | 2.5G | 1550nm/1310nm | 20km | DFB | -5~0dBm | PIN | -18~-3dBm | Y-03746I000 |
| 2.5G BX40 | SFP | LC | 2.5G | 1490nm/1550nm | 40km | DFB | -2~3dBm | PIN | -18~-3dBm | Y-03718I000 |
| 2.5G BX40 | SFP | LC | 2.5G | 1550nm/1490nm | 40km | DFB | -2~3dBm | PIN | -18~-3dBm | Y-03728I000 |
| 2.5G BX80 | SFP | LC | 2.5G | 1490nm/1550nm | 80km | DFB | -2~3dBm | APD | -28~-8dBm | Y-0371AI000 |
| 2.5G BX80 | SFP | LC | 2.5G | 1550nm/1490nm | 80km | DFB | -2~3dBm | APD | -28~-8dBm | Y-0372AI000 |



# 1.25G

## Application

Gigabit Ethernet, Access, and other optical links

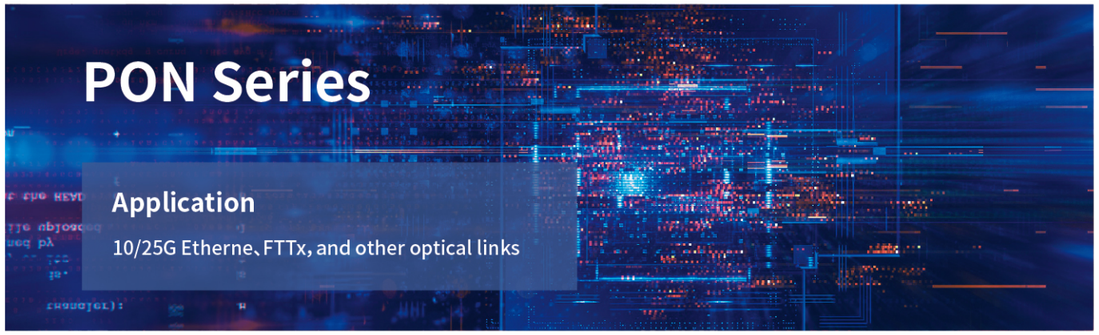
## Product Feature

- Compliant SFP MSA, IEEE 802.3z 1000BASE-SX, 1000BASE-LX and 1000BASE-ZX
- 1.25Gb/s bi-directional data links
- Hot-pluggable SFP footprint, digital diagnostics functions
- Support 550m to 80km transport
- Single 3.3V power supply
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C or -40~85°C

## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Power | Receiver | Power | Part NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1000BASE-SX | SFP | LC | 1.25G | 850nm | 550m | VCSEL | -9.5~0dBm | PIN | -21~0dBm | Y-02002I000 |
| 1000BASE-LX | SFP | LC | 1.25G | 1310nm | 10km | FP | -10~-3dBm | PIN | -25~-3dBm | Y-02014I000 |
| 1000BASE-LR | SFP | LC | 1.25G | 1310nm | 20km | FP | -9~-3dBm | PIN | -25~-3dBm | Y-02016I000 |
| 1000BASE-LH | SFP | LC | 1.25G | 1310nm | 40km | DFB | -4~3dBm | PIN | -25~-3dBm | Y-02018I000 |
| 1000BASE-LH | SFP | LC | 1.25G | 1550nm | 40km | DFB | -7~0dBm | PIN | -25~-3dBm | Y-02028I000 |
| 1000BASE-ZX | SFP | LC | 1.25G | 1550nm | 80km | DFB | -3~3dBm | PIN | -26~-3dBm | Y-0202AI000 |
| 1000BASE-ZX | SFP | LC | 1.25G | 1550nm | 100km | DFB | 0~5dBm | PIN | -31~-9dBm | Y-0202BI000 |
| 1000BASE-ZX | SFP | LC | 1.25G | 1550nm | 120km | DFB | 0~5dBm | APD | -34~-9dBm | Y-0202CI000 |
| 1.25G BX10 | SFP | LC | 1.25G | 1310/1550nm | 10km | FP | -9~-3dBm | PIN | -21~-3dBm | Y-02734I000 |
| 1.25G BX10 | SFP | LC | 1.25G | 1550/1310nm | 10km | DFB | -9~-3dBm | PIN | -21~-3dBm | Y-02744I000 |
| 1.25G BX20 | SFP | LC | 1.25G | 1310/1550nm | 20km | DFB | -9~-3dBm | PIN | -25~-3dBm | Y-02736I000 |
| 1.25G BX20 | SFP | LC | 1.25G | 1550/1310nm | 20km | DFB | -9~-3dBm | PIN | -25~-3dBm | Y-02746I000 |
| 1.25G BX40 | SFP | LC | 1.25G | 1310/1550nm | 40km | DFB | -4~3dBm | PIN | -25~-3dBm | Y-02738I000 |
| 1.25G BX40 | SFP | LC | 1.25G | 1550/1310nm | 40km | DFB | -4~3dBm | PIN | -25~-3dBm | Y-02748I000 |
| 1.25G BX60 | SFP | LC | 1.25G | 1310/1550nm | 60km | DFB | 0~5dBm | PIN | -25~-3dBm | Y-02739I000 |

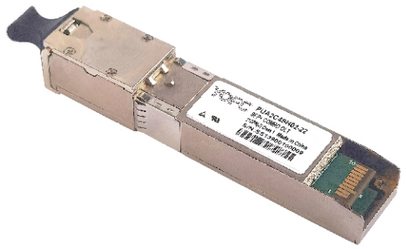




# PON Series

## Application

10/25G Etherne、FTTx, and other optical links



## Product Feature

- Hot-pluggable, digital diagnostics functions
- Meet EMI, ESD
- RoHS compliant
- Class 1/1M Standard product, Compliant IEC60825-1
- Telcordia (bellcore) GR-468-CORE reliability compliant
- Operating temperature 0~70°C

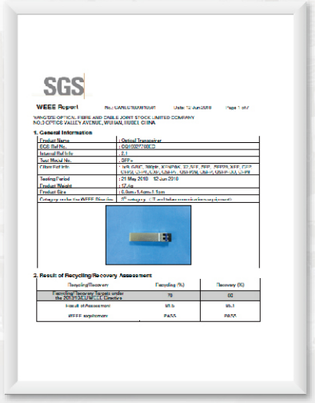
## Technical Specification

| Remark | Package | Connector | Data Rate | Wavelength | Reach | Transmitter | Receiver | Part NO. |
|---|---|---|---|---|---|---|---|---|
| XGSPON OLT N1 | SFP+ | SC | 10G | 1577nm/1270nm | 20km | EML | APD | Y-16796C120 |
| XGSPON OLT N2a | SFP+ | SC | 10G | 1577nm/1270nm | 20km | EML | APD | Y-16796C128 |
| XGSPON OLT E1 | SFP+ | SC | 10G | 1577nm/1270nm | 20km | EML | APD | Y-16796C123 |
| Combo XGS&GPON OLT C+ | SFP+ | SC | 10G/2.5G/ 10G/1.25G | 1577nm/1490nm/ 1270nm/1310nm | 20km | EML/DFB | APD | Y-16796C124 |
| Combo XGS&GPON OLT D | SFP+ | SC | 10G/2.5G/ 10G/1.25G | 1577nm/1490nm/ 1270nm/1310nm | 20km | EML/DFB | APD | Y-16796C125 |
| 10G EPON OLT | SFP+ | SC | 10G/2.5G/ 10G/1.25G | 1577nm/1490nm/ 1270nm/1310nm | 20km | EML/DFB | APD | Y-16796C110 |
| 10G EPON ONU PR30 | SFP+ | SC | 10G | 1577nm/1270nm | 20km | DFB | APD | Y-16796C112 |
| XGSPON ONU | SFP+ | SC | 10G | 1577nm/1270nm | 20km | DFB | APD | Y-16796C121 |
| 10G EPON ONU | XFP | SC | 10G | 1577nm/1270nm | 20km | DFB | APD | Y-36796C113 |
| 25G PON OLT Symmetrical | SFP-DD | SC | 25G | 1358nm/1310nm | 20km | EML | APD | Y-K7816C130 |
| 50G PON OLT Asymmetrical | SFP-DD | SC | 50G/25G | TBD | 20km | EML | APD | Y-KFXX6C129 |

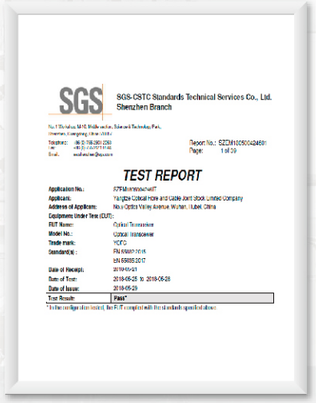
## Optical Transceiver Certification

### C E

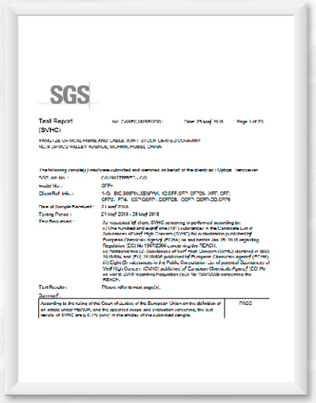
### WEEE




### FCC

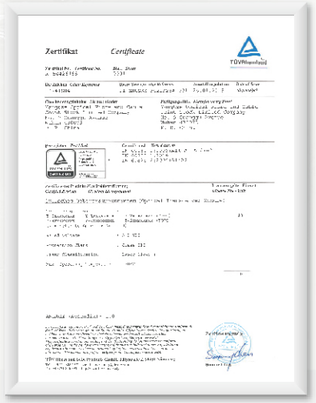



### REACH




### ROHS

### TUV






## Optical Transceiver System Certificate

### ISO9001