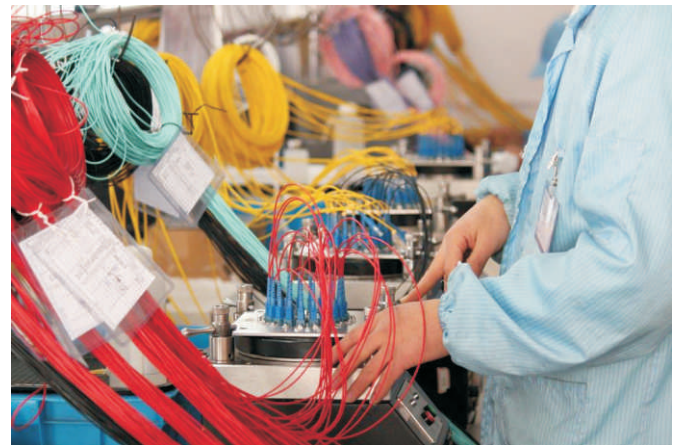


Shenzhen Optostar Optoelectronics Co., Ltd.



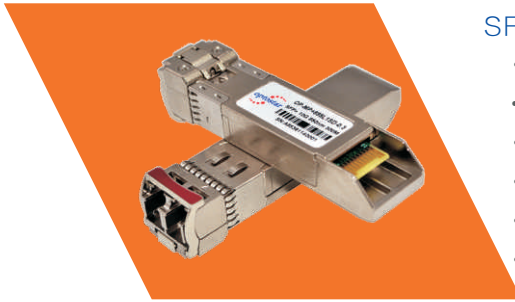
Shenzhen Optostar Optoelectronics Co., Ltd. was founded in May 2006 and headquartered in Nanshan District, Shenzhen, China. As a leading manufacturer and supplier for fiber optical components and system products in China, we can provide our customers with active components such as GPON/EPON, all serial SFP transceivers, Media Converters, PDH multiplexers, EDFAs, Video Multiplexers which are used for telecommunication, network and security. We are also producing passive components such as Patch Cords, CWDM, DWDM, PLC splitters and so on.

Our company has a lot of advantages based on 10 years of experience in the optical telecommunication industry, Perfect techniques and producing plant, Abundant technology development capability with 10 persons R&D team, Rich OEM & ODM co-operation experience with famous overseas companies, Strong ability to provide whole network solutions. We owned 2 production plants which the total area is more than 6000sqm and more than 300 workers and 50 technicians and 1 headquarter office which has sales team of around 30 persons. After more than ten years of operation, Optostar has successfully developed the worldwide market. Our products are widely accepted by the customer from all of the world and win good reputations by themselves. We promise to provide our customers with high quality products and nice services. To achieve your 100% satisfaction is our persistent goal all along!



### SFP Transceiver

- Data rate:155M/622M/1.25G/2.5G/4.25G/6G/8G
- Wavelength:850nm/1310nm/1550nm
- CWDM/DWDM Wavelength option
- Distance: 100m to 160km
- Hot-pluggable SFP footprint



### SFP+ Transceiver

- Data rate:9.95 to 11.3Gb/s(Built-in dual CDR)
- Wavelength:850nm/1310nm/1550nm
- CWDM/DWDM option
- Distance: 100m to 100km
- Hot-pluggable SFP footprint
- SFP MSA SFF-8472 SFF-8431 SFF-8432 Compliant

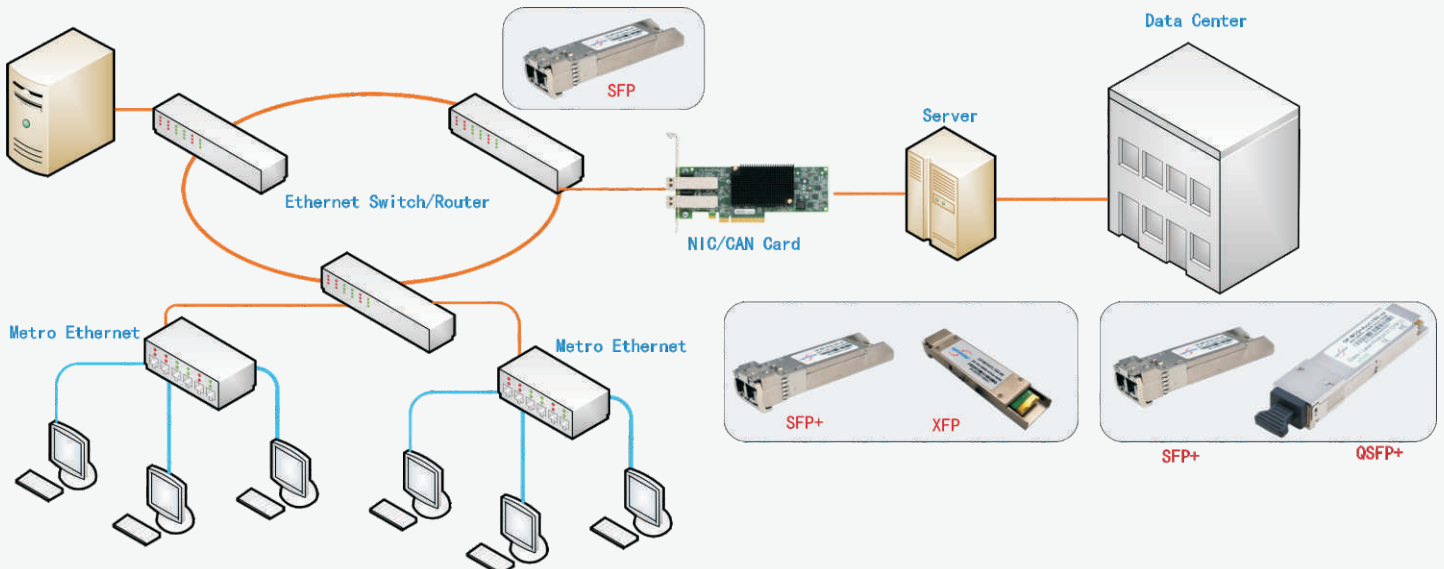
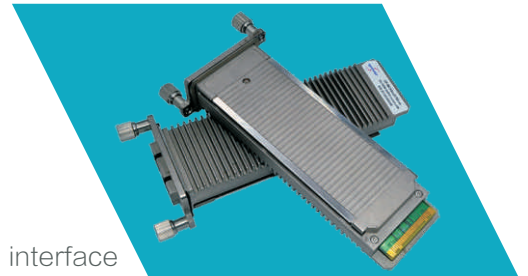
### XFP Transceiver

- Data rate:9.95 to 11.3Gb/s(Built-in dual CDR)
- Wavelength:850nm/1310nm/1550nm
- CWDM/DWDM option
- Distance: 100m to 100km
- Compliant with IEEE 802.3ae
- ITU-T G.959,G.691 and G.692 compliant



### Xenpak Transceiver

- Data rate:10.3Gb/s
- Wavelength:850nm/1310nm/1550nm
- CWDM/DWDM option
- Distance: 100m to 100km
- Hot pluggable 70-pin connector with XAUI electrical interface



## X2 Transceiver

- Data rate: IEEE 802.3ae 10GBASE-LR at 10.3125Gbps
- Wavelength: 850nm/1310nm/1550nm
- CWDM/DWDM option
- Management and control via MDIO 2-wire interface
- Compatible with X2 MSA Rev2.0b
- Hot Pluggable 70-PIN Connector with XAUI Electrical Interface

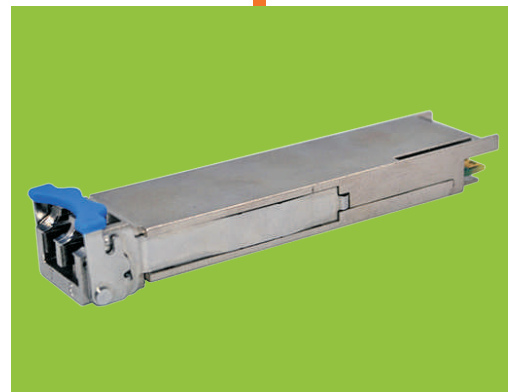


## QSFP+ Transceiver

- Data rate: 4 independent full-duplex channels up To 11.3Gbps data rate per wavelength, Total 40G
- Wavelength: 850/1310/1271/1291/1311/1331nm
- MTP/MPO optical connector
- Hot-pluggable QSFP+ footprint
- Compliant with IEEE802.3ba,
- Compliant with QSFP+ MSA: SFF-8436

## QSFP28 Transceiver

- Data rate: 4x26Gb/s , Total 103.1Gbps
- Wavelength: 1296nm/1300nm/1305nm/1309nm
- 4 CWDM lanes MUX/DEMUX design
- Hot-pluggable QSFP28 form factor
- Applicable for 10km SMF connection by duplex LC connector
- Compliant with 100GBASE-LR4

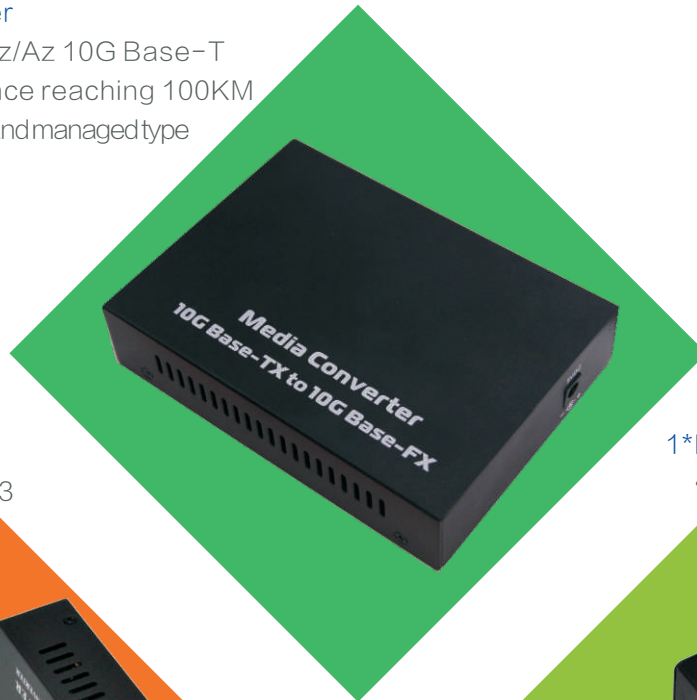


## CFP/CFP2/CFP4 Transceiver

- Data rate: 103.125 Gbps to 111.81 Gbps
- Duplex LC optical receptacle and Single 3.3 V power supply
- Compliant with 100GBASE-LR4
- No external reference clock
- Integrated LAN WDM TOSA/ROSA for up to 10km reach over SMF
- Digital Diagnostics Monitoring Interface

## 10G Series Media converter

- Supporting IEEE 802.3z/Az 10G Base-T
- Max transmitting distance reaching 100KM
- Option for unmanagement and managed type



## 10/100M&10/100/1000M Series Media converter

- Complying with IEEE 802.3 /802.3u//802.3x,
- Max Distance 160KM



## 1\*Fiber+N\*Copper Media Converter

- 1~8 available for Ethernet port
- FE or GE Auto-negotiation
- Available for security solution



## Super Mini Series Media Converter (42\*53\*25mm)

- Super small size saving space
- Freight charge saved during transportation
- 10/100Base-T with different transmitting distance



## PoE Switch

- Can supply power to network surveillance cameras without PoE function
- Supports port auto-flip (Auto MDI/ MDIX)
- Adopts store-and-forward architecture
- IEEE 802.3af/at power
- Support VLAN function
- Meeting standard of IEEE802.3 10Base-T and IEEE802.3u 100Base-TX.
- Supply power to wireless AP and IP Camera through CAT 5e/6 cable



## High Power PoE Switch

- Can supply power to network surveillance cameras that without PoE function
- Supports port auto-flip (Auto MDI/MDIX)
- Adopts store-and-forward architecture
- Features with fanless, natural cooling, small, compact and quiet design, suitable for desktop or wall
- easy to place it into standard mounting brackets

## Managed PoE Switch

- L2+ function with better performance of management, safety & QoS etc.
- Support Layer 2 switching function, including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE + management, IP Source Guard, ARP inspection, ACLs etc.
- Support spanning tree STP(802.1D) and RSTP(802.1W).
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- IEEE802.3af/at.



## Full Gigabit PoE Switch

- Supply power to Cat.5e/6 classes Ethernet wireless access point (AP) and network surveillance cameras (PoE)
- Compatible with IEEE802.3af/at standard
- N\*10/100/1000Mbps automatic adjustment RJ45 PoE ports
- Meets the standards of the IEEE 802.3af/ IEEE 802.3/IEEE 802.3u /IEEE 802.3ab
- All ports support wire-speed switching, frame size within the range of 64 to 1536 can achieve wire-speed

## Cost-effective PoE Switch

- IEEE 802.3af power on up to 4 ports
- Supply power to wireless access points and surveillance cameras over Cat-5e/6 cabling
- Supports PoE power up to 15.4W for each PoE port
- Supports PoE IEEE 802.3af compliant Pds
- Supports IEEE 802.3x flow control for Half/Full-duplex Mode
- External power adapter supply



## Industrial POE Switch

- Port Aggregation, Port Rate Limitation, Broadcast Storm Restraint.
- Nx Gigabit Auto-sensing RJ45 Ports, Nx Gigabit SFP Optical Ports
- Compatible with IEEE802.3af/at.
- L2, with better performance of management, safety, QoS and others.
- With layer 2 function, including VLAN based on port, VLAN based on 802.1Q, Mirroring, Port Isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ Management, IP Protection, ARP Inspection and Access Control List etc.

## PoE Injector

- lightning protection for Power supply input port and network port
- Complies with IEEE 802.3af
- N\*FE/GE Ports Optional
- Supports PoE power up to 15.4 Watts
- Remote power feeding up to 100 meters
- Supports 1U rack design, suitable for cabinet-mounted



## Industrial PoE Media Converter

- Industrial design, 2/4x 10/100M Ethernet RJ45 ports with AutoUplink™ and 1x 100M SC optical port
- Supports IEEE802.3x flow control for Half/Full-duplex Mode
- RJ-45 port supports Auto MDI/MDI-X
- Electromagnetic compatibility of up to 4 grade standard
- IP40 protection class
- Superior performance, successfully used in industrial field
- Power ports supports both IEEE802.3af and IEEE802.3at standard PoE power supply.



### OP-GETR Series EPON OLT

- Support EPON/10G EPON mixed insertion for future new cards
- Maximum support 32\*EPON and 24\*GE(For OP-GETR04)/64\*EPON and 48\*GE(For OP-GETR08)/128\*EPON and 96\*GE(For OP-GETR16)
- 6/8/18 slots, 2 main control cards, 4/8/16 line cards
- 1+1 master control redundancy, 1+1/2+2 power supply redundancy
- 1.6Tbps/3.2Tbps/6.4Tbps widely backplane capacity and smooth upgrade to 40G/100G

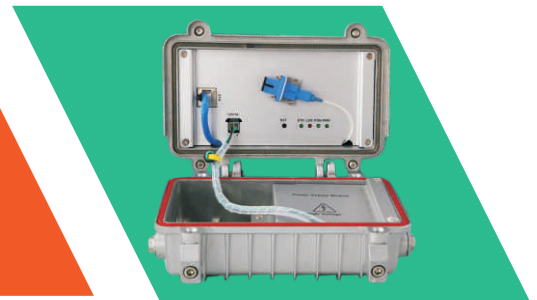


### OP-ETB Series EPON OLT(2/4/8/16 PON Port)

- 2/4/8/16 fixed PON slots with 1:64 splitting ratio at most
- Support 128~1024 ONU
- Maximum Transmission distance:20km (1:32 splitting ratio)
- Support Telnet and local command lines management
- EMS management based on standard SNMP protocol

### Data (Outdoor) EPON ONU (1/2/4/8 Port+WIFI)

- Full compatible with IEEE802.3ah
- Support port-based rate limitation and bandwidth control;
- In compliant with IEEE802.3ah Standard
- Up to 20KM transmission Distance



### Voice EPON ONU (1/2/4/8 ETH+1/2/4 POTS+1 USB+WIFI)

- Full compatible with IEEE802.3ah
- Support one 802.11 n/b/g WiFi port
- Support OAM and TR069 for remote management
- Support VLAN tagged label processing, traffic classification and packet filtering, STP/RSTP etc.
- Support H.248 MGCP and SIP protocol



### CATV EPON ONU (1/2/4/8 ETH+1/2/4 POTS+1 RF+1 USB+WIFI)

- In compliant with IEEE802.3ah Standard and CTC2.1
- Up to 20KM transmission Distance, Support VLAN and IGMP
- Support port isolation between different ports
- Integrated OAM remote configuration and maintenance function
- Plug and play, integrated auto detecting, auto configuration, and auto firmware upgrade technology
- EMS network management based on SNMP, convenient for maintenance







### OP-GETR Series GPON OLT

- Support EPON/10G EPON mixed insertion for future new cards
- Maximum support 32\*EPON and 24\*GE(For OP-GETR04)/64\*EPON and 48\*GE(For OP-GETR08)/128\*EPON and 96\*GE(For OP-GETR16)
- 6/8/18 slots, 2 main control cards, 4/8/16 line cards
- 1+1 master control redundancy, 1+1/2+2 power supply redundancy
- 1.6Tbps/3.2Tbps/6.4Tbps widely backplane capacity and smooth upgrade to 40G/100G



### OP-GTB Series GPON OLT(4/8/16 PON Port)

- 4/8/16 fixed PON slots with 1:128 splitting ratio at most
- Support 512~2048 GPON ONU&Satisfy ITU-T standard
- Maximum Transmission distance:20km (1:64 splitting ratio)
- TR-101 compliant solution for FTTx OLT applications
- Support uplink FEC, downlink FEC

### Data (Outdoor) PON ONU (1/2/4/8 Port+WIFI)

- Full compatible with ITU-T G.984
- Support one 802.11 n/b/g Wi-Fi port
- Support OMCI for remote management
- Support Web for local management
- Support loopback at UNI



### Voice GPON ONU (1/2/4/8 ETH+1/2/4 POTS+1 USB+WIFI)

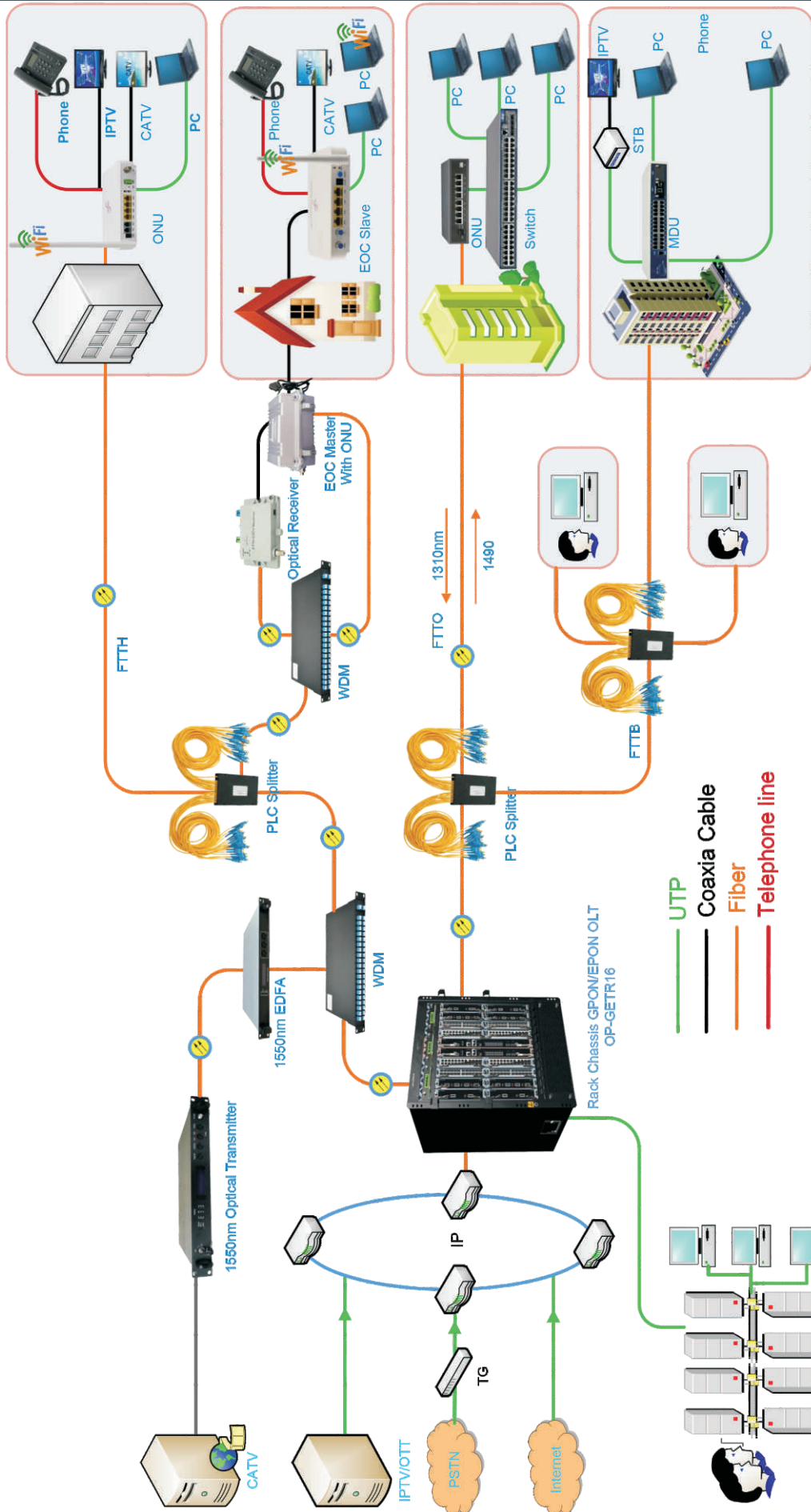
- Full compatible with ITU-T G.984
- Support one 802.11 n/b/g WiFi port
- Support OMCI and TR069 for remote management
- Support VLAN tagged label processing, traffic classification and packet filtering, STP/RSTP etc.



### CATV GPON ONU (1/2/4/8 ETH+1/2/4 POTS+1 RF+1 USB+WIFI)

- Full compatible with ITU-T G.984
- Support CATV RF Output
- Support OMCI and TR069 for remote management
- Support Web for local management
- Support VLAN tagged label processing, traffic classification and packet filtering, STP/RSTP etc.







### CWDM in 1U Rackmount(4,8,16,18-Channel)

- Wavelength from 1270nm~1610nm
- LC SC ST FC E2000 connectors
- Different design for rack chassis



### CWDM in LGX Box(4,8,16,18-Channel)

- Wide pass band
- High Stability and reliability
- Epoxy free on optical path
- Fiber Optical amplifier

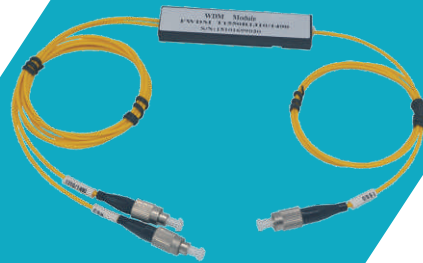
### CWDM Module (4,8,16,18-Channel)

- Effectively save fiber resources and network costs.
- low cost, low power consumption, small volume.
- OADM Optional
- A full range of CWDM Mux-Demux and Optical Add Drop Multiplexer
- Mainly used in Line Monitoring, WDM Network, Telecommunication and Cellular Application



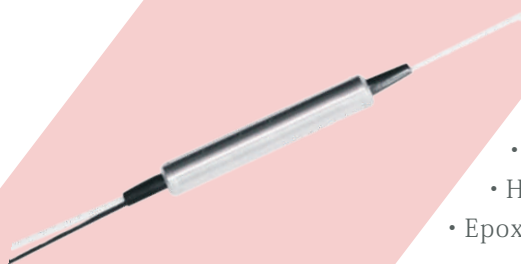
### 3 Ports FWDM Module (1310/1490/1550nm)

- Wide Operating Wavelength Range
- Low insertion loss, Ultra Flat Wide Passband
- High Channel Isolation, High stability and reliability



### Mini CWDM Mux/Demux Module

- High stability and reliability
- Epoxy free on optical path
- Encapsulation methods are: ABS box, LGX box, 19"1 u case.



### 1x2 CWDM Device(3 Ports)

- Low Insertion Loss
- High Channel Isolation
- High Stability and Reliability
- Epoxy-free on Optical Path

## 50GHz/100GHz/200GHz DWDM Module in 1U Rackmount



- Wide pass band
- High Stability and reliability
- Epoxy free on optical path
- Fiber Optical amplifier

## DWDM in LGX Box(4,8,16,18-Channel)



- Wide pass band
- High Stability and reliability
- Epoxy free on optical path
- Fiber Optical amplifier

## 50GHz/100GHz/200GHz DWDM Module

- 50GHz/100GHz/200GHz Channel Spacing
- High Channel Isolation, High Stability and reliability
- 4, 8, 16 channel, low insertion loss, high channel isolation
- Wide pass band, low temperature, OADM Optional
- Used in DWDM Network and CATV fiberoptic System



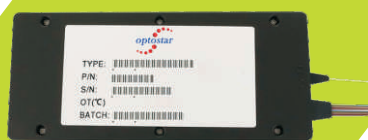
## 40CH/80CH 50/100/200GHz Athermal AWG

- Use within the C -band release of DWDM system
- Offer different product packages, including special metal box and 19" 1U rackmount.
- Established silica-on-silicon
- Low chromatic dispersion

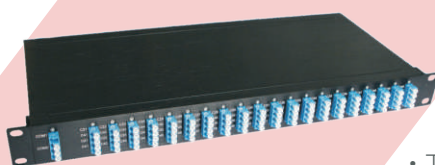


## 40CH/80CH 50/100/200GHz Thermal AWG

- Established silica-on-silicon
- Low chromatic dispersion
- Use within the C -band release of DWDM system
- Offer different product packages, including special metal box and 19" 1U rackmount.



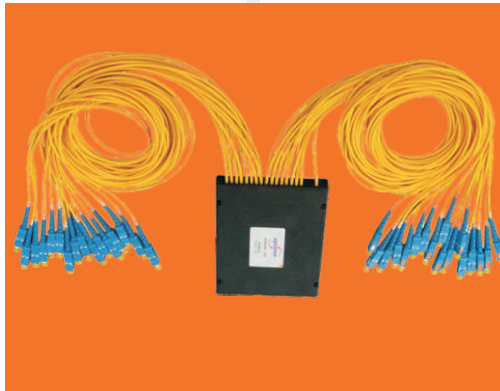
## 80CH 50/100/200GHz Athermal AWG in 1U Rackmount



- Established silica-on-silicon
- Low chromatic dispersion
- Telcordia GR-1221-CORE qualified
- Optical add/drop multiplexing

## Steel tube PLC Splitter

- low IL&PDL
- uniformity&high reliability
- 1260~1620nm wavelength
- Steel Tube PLC Splitter : 1x2, 1x4, 1x8, 1x16, 1x32, 1x64, 2x2, 2x4, 2x8, 2x32, 2x64
- Excellent Environmental Stability
- Excellent Mechanical
- Stability Telcordia GR-1221 and GR-120

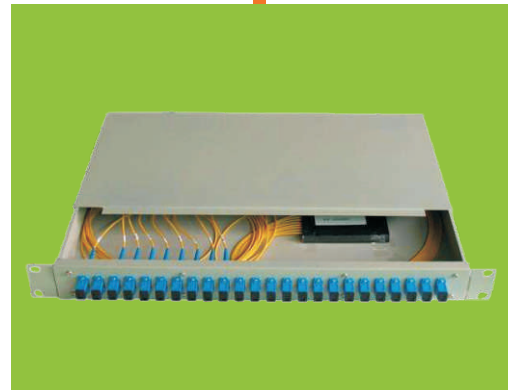


## PLC Splitter Module

- 1x2, 1x4, 1x8, 1x16, 1x32, 1x64, 2x2, 2x4, 2x8, 2x32, 2x64
- Black box plc splitter
- Insertion loss < 14.0
- wavelength sensitive
- Data transmission

## Rack Mount PLC Splitter

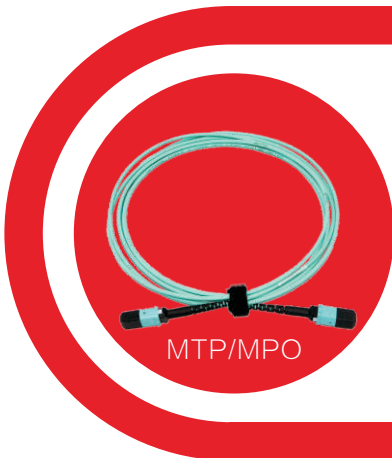
- Good uniformity and low insertion loss
- Low Polarization Dependent Loss
- Excellent Environmental Stability
- Excellent Mechanical
- Stability Telcordia GR-1221 and GR-1209



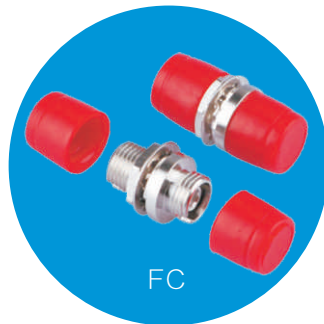
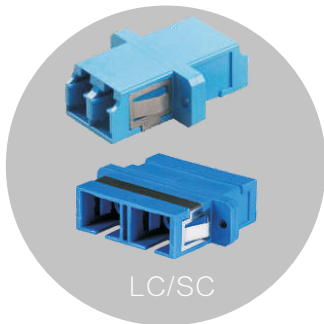
## 1x2 FBT Coupler

- Low insertion loss, low PDL
- High credibility and stability
- Industry standard and custom housing available
- Various coupling ratio and connector available

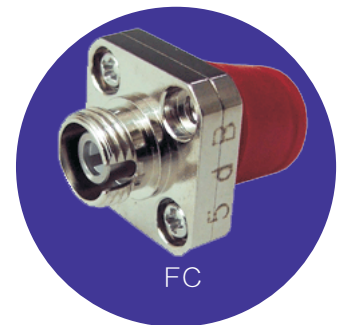
## Optical Patch Cord



## Optical Adapter



## Optical Attenuator



## Data Center





OP8000-6U

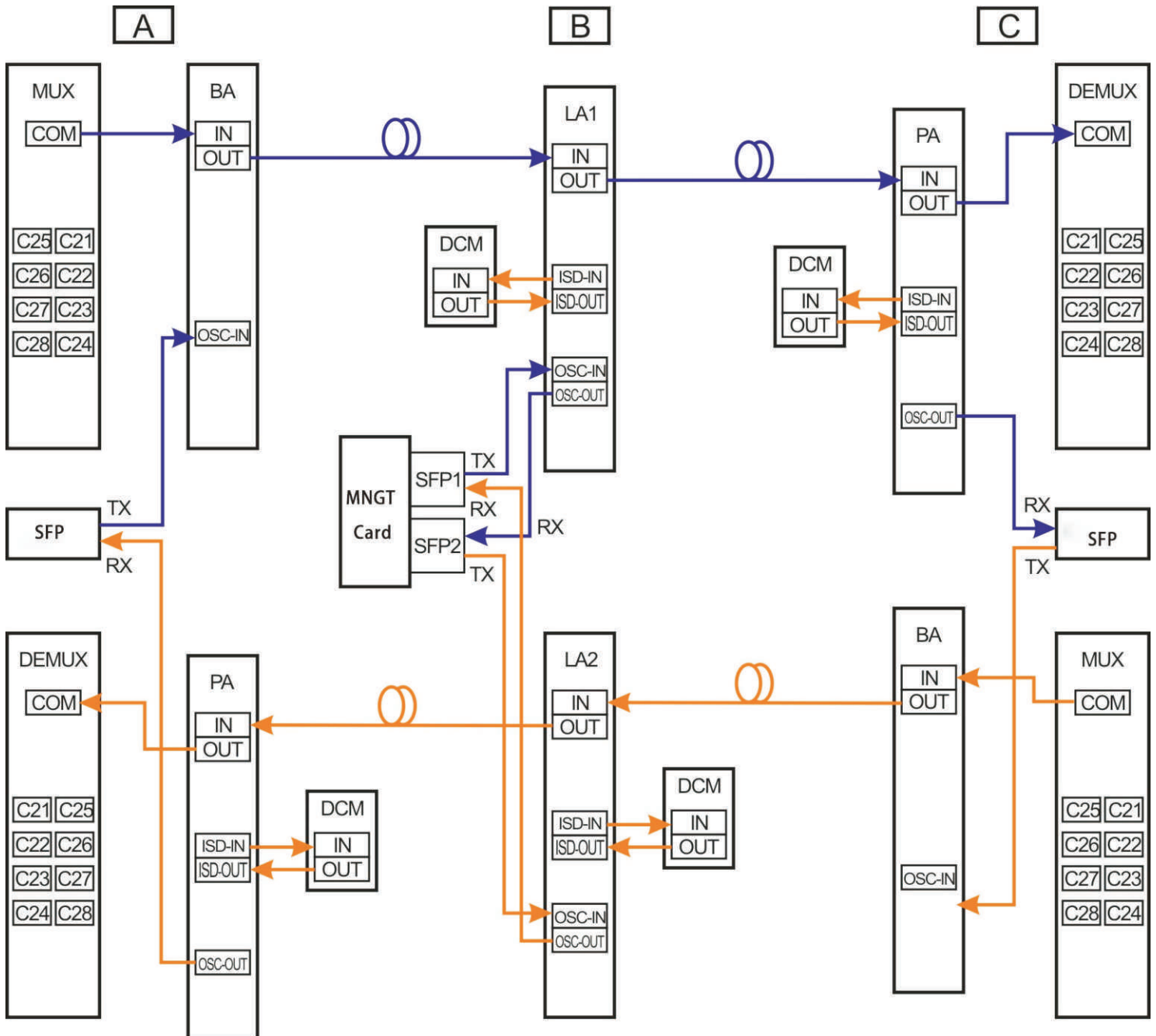


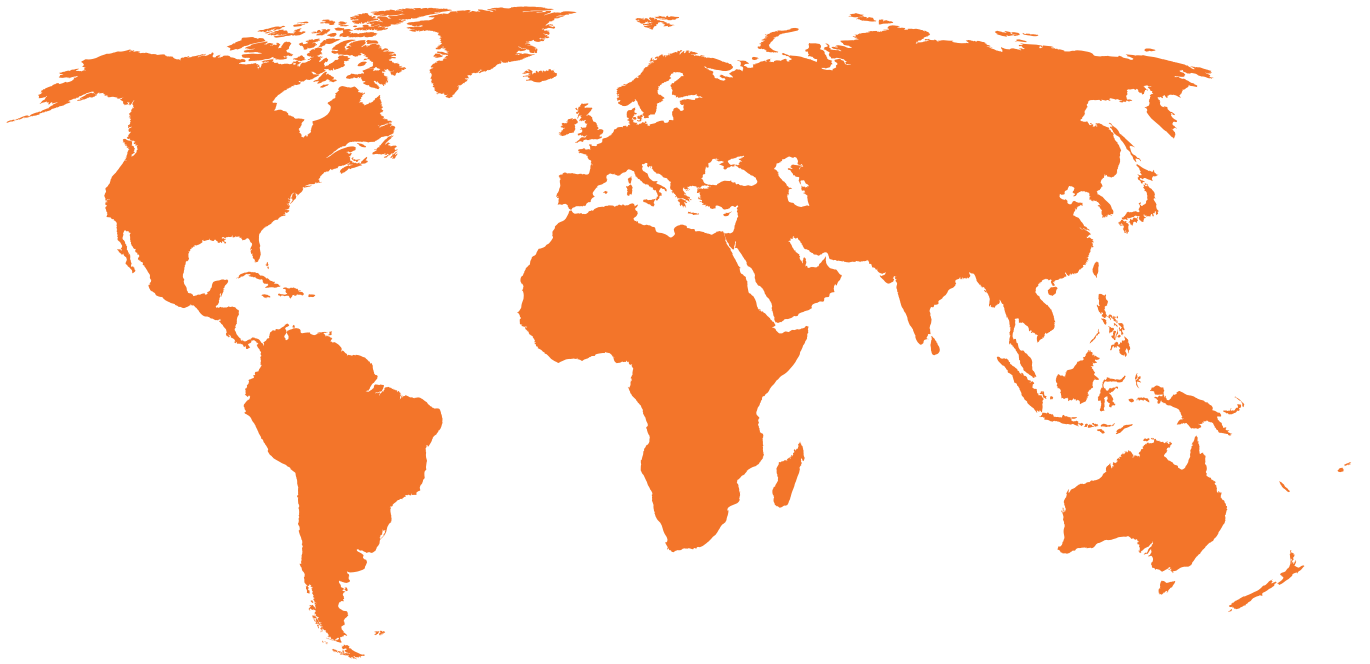
OP8000-2.5U



OP8000-1U

- Rack amount with 6U, 2.5U or 1U
- Combine OTU, DWDM, OCP, EDFA, OLP, OPM, NMS, TMUX-E2M2S, TMUX-E8M2X, AWG, OADM and other functions into one rack
- With strong management card to monitor all different functions card
- Vertical card type convenient for cable management.





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