

EA5801E-FL16-H1

EA5801E-FL16-H1 Product Datasheet

Issue 01
Date 2022-06-29



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DataSheet Front Cover

Manual Description

The EA5801E-FL16-H1 is a compact box-shaped OLT. It provides multiple fiber to the home (FTTH) solutions to meet the requirements of economical and efficient network construction.

DataSheetPoster

Figure 1 Cover

Figure 2



DataSheetDes

Issue: 01 Date: 2022-06-29

DataSheetContact

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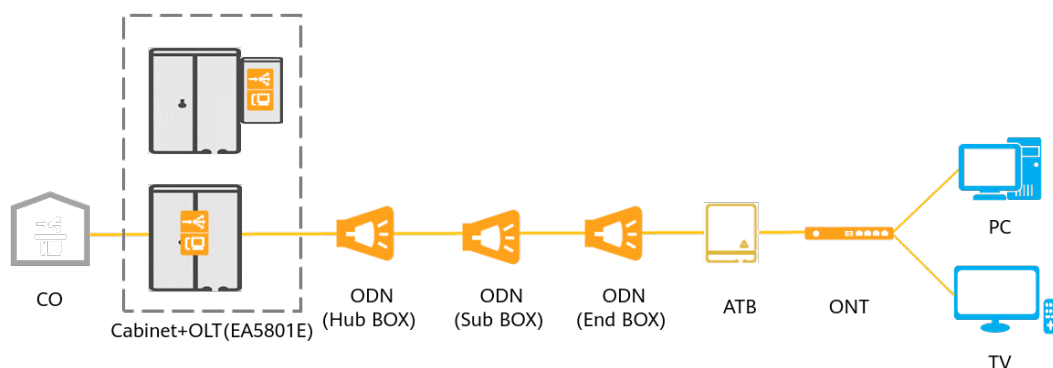
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1 Product Overview

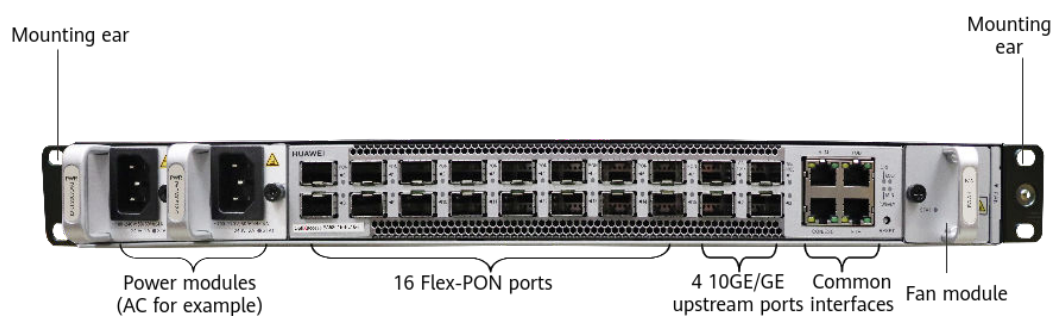
With the continuous promotion of new services, such as 4K/VR videos, home networks, and network cloudification, optical fiber access has become an important means for countries around the world to popularize broadband networks. As optical fiber access nodes keep moving closer to end users, OLTs are closer to end users. Deployment scenarios are complex and diversified. In this case, network needs OLTs with small volume and low density.

The EA5801E-FL16-H1 is a compact box-shaped OLT. It provides GPON access, and supports passive optical LAN (POL) and fiber to the home (FTTH) solutions. It carries all services over one fiber network, simplifying network architecture and reducing OPEX.



2 Appearance and Structure

The product is a box-shaped OLT. It houses integrated control and service module, 1 pluggable fan module and 2 pluggable power modules. Its mounting ears are applicable to IEC specifications and ETSI specifications, and are used in racks or cabinets of different specifications.



3 Product Highlights

Lightweight and small size

The lightweight OLT weighs less than 5 kg and occupies 1 U installation space. It can be flexibly adapted to various scenarios.

High density, supporting 16 Flex-PON ports

Supports 16 Flex-PON service ports and works with Flex-PON optical modules to implement Flex-PON access.

NOTE

Flex-PON is a flexible PON solution developed by Huawei for GPON and XG(S)-PON. It implements smooth network evolution through the integrated Flex-PON service board. The ports of the Flex-PON service board can work in multiple modes, including:

- GPON
- XG-PON
- XGS-PON
- GPON&XG-PON Combo
- GPON&XGS-PON Combo

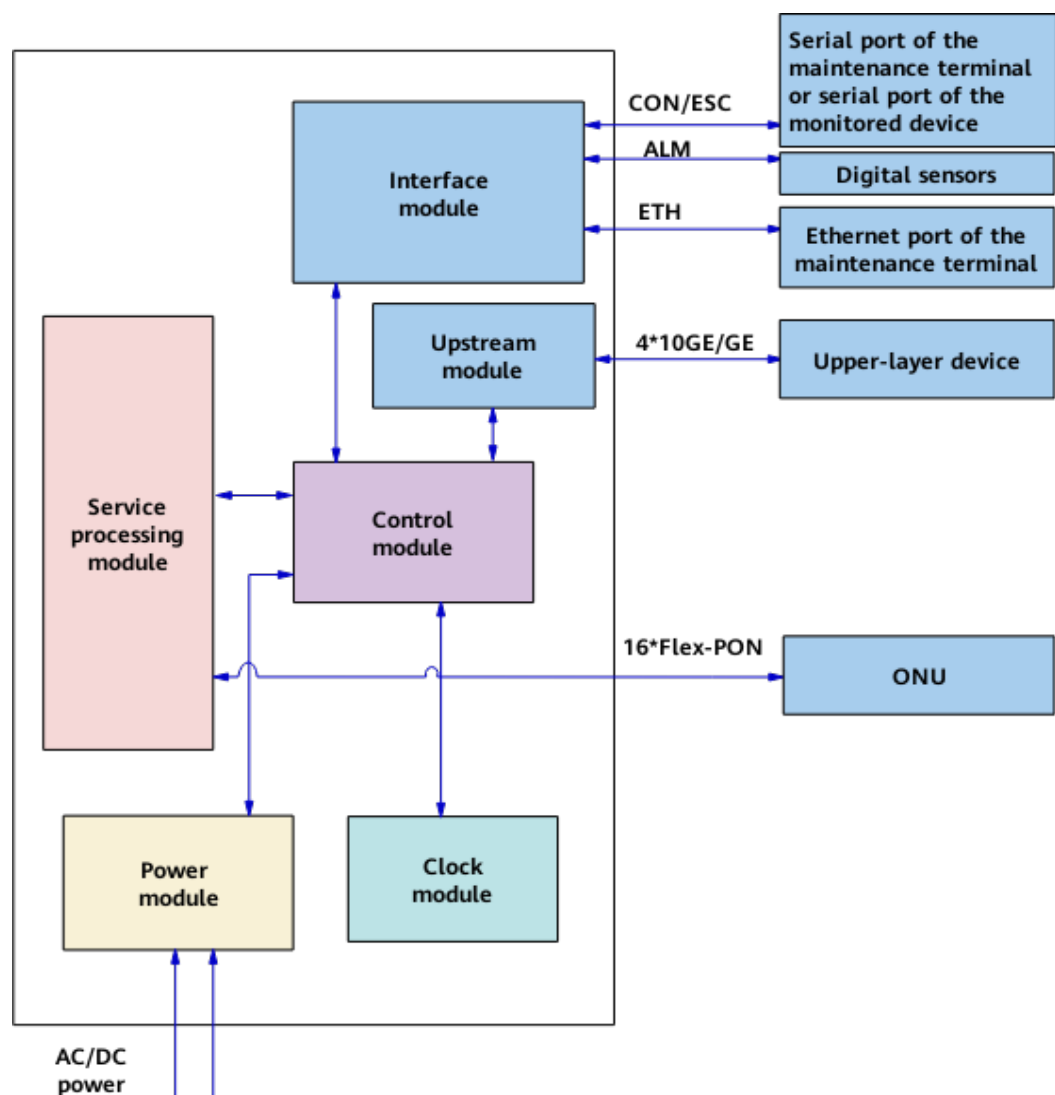
Dual power supplies, high reliability

Supports dual AC or DC power supplies, providing flexible power supply and high reliability.

Easy installation and flexible deployment

The matching small outdoor cabinet can be installed on a pole, tower, or wall, facilitating installation and reducing engineering costs.

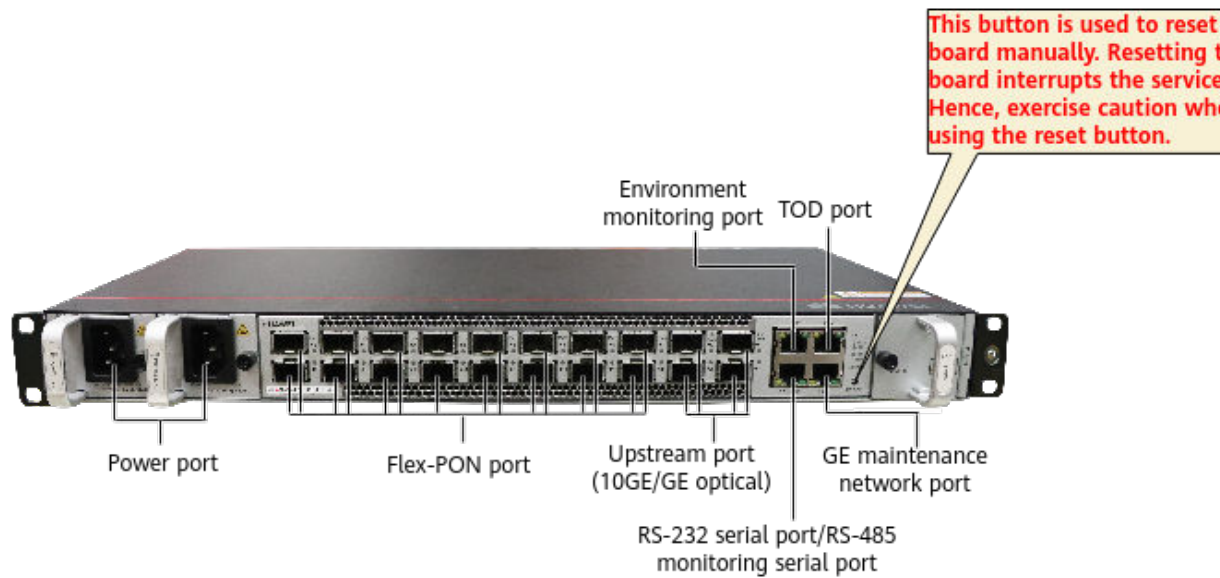
4 Working Principle



- **Control module:** It is the core of the system control and service switching and aggregation. It can also function as the management and control core of the integrated network management system (NMS).

- **Upstream module:** It can provides four 10GE/GE upstream ports.
- **Service processing module:** It works together with the optical network unit (ONU) to provide Flex-PON access services.
- **Interface module:** It supports functions such as input and output of alarm digital parameters.
- **Power module:** It supplies power to each functional module of the board.
- **Clock module:** It provides clock signals for each functional module of the board.

5 External Ports



NOTE

The product provides 2 slots for power boards so that 1 or 2 power modules can be configured as required. If only one power module is configured, a filler panel must be installed in the other slot. AC and DC are incompatible.

| Port Name | Silk Screen | Number of Ports | Function |
|---------------|-------------|-----------------|--|
| DC power port | - | 2 | Connects to -48/-60 V DC power. |
| AC power port | - | 2 | Connects to 110/220 V AC power. |
| Reset button | RESET | 1 | This button is used to reset the board manually. Resetting the board interrupts the services. Hence, exercise caution when using the reset button. |
| Flex-PON port | PON: 0-15 | 16 | Provides 16 Flex-PON ports for Flex-PON service access. |

| Port Name | Silk Screen | Number of Ports | Function |
|--|--------------|-----------------|--|
| Upstream port (10GE/GE optical) | 10GE/GE: 0-3 | 4 | Provides 4 10GE/GE ports for upstream transmission. |
| GE maintenance network port | ETH | 1 | 10/100/1000M BASE-T maintenance port. Connected to the Ethernet port of the maintenance terminal. |
| RS-232 serial port/RS-485 monitoring serial port | CON/ESC | 1 | Connected to the serial port of the maintenance terminal/Connected to the serial port of the monitored device. |
| TOD port | TOD | 1 | Reserved. |
| Environment monitoring port | ALM | 1 | Connected to digital sensors. |

6 Indicators

Indicator on The Panel Indicators

| Indicator | Name | Color | Status | Description |
|-----------|----------------------------|--------|--|--|
| RUN/ALM | Running status indicator | Green | Blinking slowly (on for 1s and off for 1s repeatedly) | The board functions properly. |
| | | Green | Blinking quickly (on for 0.25s and off for 0.25s repeatedly) | Indicates that program loading is in progress. |
| | | Orange | Blinking | A high-temperature alarm is generated. |
| | | Red | On | The board is faulty. |
| | | Red | Blinking (on for 0.25s and off for 0.25s repeatedly) | The board is starting. |
| CRI | Alarm indicators | Red | On | The system has generated a critical alarm. |
| MAJ | Alarm indicators | Orange | On | The system has generated a major alarm. |
| MIN | Alarm indicators | Yellow | On | The system has generated a minor alarm. |
| PON0-15 | Link/data status indicator | Green | On | The ONT connected to the related PON port is online. |

| Indicator | Name | Color | Status | Description |
|-----------|------|-------|----------|---|
| | | Green | Blinking | The optical module does not take effect. |
| | | - | Off | The ONT connected to the related PON port is not offline. |

Indicator on The Upstream Port

| Ports | Name | Color | Status | Description |
|-----------------------|----------------------------|-------|----------|--------------------------------------|
| Upstream optical port | Link/data status indicator | Green | On | A connection is set up on the port. |
| | | Green | Blinking | Data is being transmitted. |
| | | - | Off | No connection is set up on the port. |

Indicator on DC Power

| Indicator | Name | Color | Status | Description |
|-----------|-----------------|-------|----------|--|
| STAT | Power indicator | Green | On | The input/output is normal. |
| | | Green | Blinking | The power supply is in hiccup protection mode. |
| | | - | Off | The power input is abnormal (no input, input overvoltage or undervoltage), and the power output is abnormal (undervoltage, overvoltage, or short circuit). |

Indicator on AC Power

| Indicator | Name | Color | Status | Description |
|-----------|-----------------|-------|--------|-----------------------------|
| STAT | Power indicator | Green | On | The input/output is normal. |

| Indicator | Name | Color | Status | Description |
|-----------|------|-------|----------|--|
| | | Green | Blinking | The power supply is in hiccup protection mode. |
| | | - | Off | The power input is abnormal (no input, input overvoltage or undervoltage), and the power output is abnormal (undervoltage, overvoltage, or short circuit). |

Indicator on Fan

| Indicator | Color | Status | Meaning | Operation Description |
|-----------|--------|--|---|---|
| STATUS | Yellow | Blinking (on for 0.25s and off for 0.25s repeatedly) | The fan module is not registered. | If the fan module is not registered, no action is required. |
| | Green | Blinking (on for 1s and off for 1s repeatedly) | The fan module works in the normal state. | No action is required. |
| | Red | Blinking (on for 0.25s and off for 0.25s repeatedly) | The fan module is faulty. | Replace the faulty fan module. |

7 Primary Features

Layer 2 features

VLAN+MAC forwarding

PPPoE+

SVLAN+CVLAN forwarding

DHCP option82

Layer 3 features

Static route

OSPF/OSPFv3

BGP/BGP4+

DHCP relay

RIP/RIPng

IS-IS

ARP

VRF

Multicast

IGMP v2/v3

MLD v1/v2

VLAN-based IPTV multicast

IGMP Proxy/Snooping

MLD Proxy/Snooping

IPv4 PIM and PIM-SSM

QoS

Traffic classification

trTCM-based traffic policing

Traffic shaping

PQ/WRR/PQ+WRR

Priority processing

WRED

HQoS

ACL

IPv6

IPv4/IPv6 dual stack

DHCPv6 relay

IPv6 L2 and L3 forwarding

System reliability

xPON Type B/Type C protection

ERPS (G.8032)

2 power boards for redundancy protection

In-service board fault detection and rectification

8 Product Specifications

| Item | Value |
|-----------------------------|---|
| Dimensions (W x D x H) (mm) | Excluding mounting ears: 442 x 220 x 43.6 Including IEC mounting ears: 482.6 x 220 x 43.6 Including ETSI mounting ears: 531 x 220 x 43.6 |
| Maximum fully-loaded weight | 5 kg |
| Power supply mode | <ul style="list-style-type: none"> • DC power supply (dual backup) • AC power supply (dual backup) |
| Working voltage range | <ul style="list-style-type: none"> • DC power supply: -38.4 V to -72 V • AC power supply: 100-240 V |
| Rated voltage | <ul style="list-style-type: none"> • DC power supply: -48 V/-60 V • AC power supply: 110 V/220 V |
| Maximum input current | <ul style="list-style-type: none"> • DC power supply: 6 A • AC power supply: 2.5 A |
| Ambient temperature | -40°C to +65°C The device can start up at a lowest temperature of -25°C. NOTE The +65°C temperature refers to the highest temperature measured at the air intake vent of a service subrack. |
| Ambient humidity | 5%-95% RH |
| Atmospheric pressure | 70-106 kPa |
| Altitude | < 4000 m. The air density varies with the altitude and will affect the heat dissipation of a device. Therefore, the working environment temperature of the device varies with the altitude. |

| Item | Value |
|-----------------------------------|--|
| System forwarding capacity | 460 Gbit/s |
| MAC addresses | 32768 |
| Access ONT | 2048 |
| IPv4 routing table | 8192 |
| IPv6 routing table | 4096 |
| ARP table | 16384 |
| Bit error rate (BER) in full load | When FEC is enabled, the GPON BER is less than 10 e-10, and the XG(S)-PON BER is less than 10 e-12. |
| Upstream ports | 4 GE/10GE |
| Service ports | 16 Flex-PON |
| System reliability specifications | <p>System availability for the typical configuration: > 99.999%</p> <p>Mean time between failures (MTBF): about 45 years</p> <p>NOTE Due to different network environments and different boards used by devices, the preceding MTBF (45 years) of the EA5801E is only for reference. The preceding values are only for reference. For details, contact the related Huawei engineers.</p> |
| Power consumption | <p>DC power supply:</p> <ul style="list-style-type: none"> • Static power consumption: 72W • Typical power consumption: 127W • Maximum power consumption: 228W <p>AC power supply:</p> <ul style="list-style-type: none"> • Static power consumption: 73W • Typical power consumption: 128W • Maximum power consumption: 229W <p>NOTE The power consumption of a product is tested in the following conditions:</p> <ul style="list-style-type: none"> • Static power consumption: 25°C, no optical module in optical ports, and no service. • Typical power consumption: 25°C, 4 x 10GE(10kM) upstream ports, 16 x Flex-PON(XGS Combo C+) ports on the user side, full services, and maximum traffic. • Maximum power consumption: 65°C, 4 x 10GE(10kM) upstream ports, 16 x Flex-PON(XGS Combo C+) ports on the user side, full services, and maximum traffic. |

9 Supported Optical Modules

One-channel Two-fiber Bidirectional GE Optical Module

| | | | |
|-------------------------------------|--|-------------|--|
| Type | One-channel two-fiber bidirectional optical module | | |
| No. | 1 | 2 | |
| Reach | 10 km | 40 km | |
| Operating Wavelength | 1310 nm | 1310 nm | |
| Encapsulation Type | eSFP | eSFP | |
| Port Rate | 1.25 Gbit/s | 1.25 Gbit/s | |
| Minimum Output Optical Power | -9 dBm | -5 dBm | |
| Maximum Output Optical Power | -3 dBm | 0 dBm | |
| Maximum Receiver Sensitivity | -20 dBm | -23 dBm | |
| Optical Connector Type | LC | LC | |
| Optical Fiber Type | Single-mode | Single-mode | |
| Overload Optical Power | -3 dBm | -3 dBm | |
| Extinction Ratio | 9 dB | 9 dB | |

One-channel One-fiber Bidirectional GE Optical Module

| | | | | |
|--------------|--|-------|-------|-------|
| Type | One-channel one-fiber bidirectional optical module | | | |
| No. | 1 | 2 | 3 | 4 |
| Reach | 10 km | 10 km | 40 km | 40 km |

| | | | | |
|-------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Operating Wavelength | Tx: 1310 nm Rx: 1490 nm | Tx: 1490 nm Rx: 1310 nm | Tx: 1310 nm Rx: 1490 nm | Tx: 1490 nm Rx: 1310 nm |
| Encapsulation Type | eSFP | eSFP | eSFP | eSFP |
| Port Rate | 1.25 Gbit/s | 1.25 Gbit/s | 1.25 Gbit/s | 1.25 Gbit/s |
| Minimum Output Optical Power | -9 dBm | -9 dBm | -2 dBm | -2 dBm |
| Maximum Output Optical Power | -3 dBm | -3 dBm | 3 dBm | 3 dBm |
| Maximum Receiver Sensitivity | -19.5 dBm | -19.5 dBm | -23 dBm | -23 dBm |
| Optical Connector Type | LC | LC | LC | LC |
| Optical Fiber Type | Single-mode | Single-mode | Single-mode | Single-mode |
| Overload Optical Power | -3 dBm | -3 dBm | -3 dBm | -3 dBm |
| Extinction Ratio | 6 dB | 6 dB | 9 dB | 9 dB |

One-channel Two-fiber Bidirectional 10GE Optical Module

| | | | |
|-------------------------------------|--|-------------|------------------|
| Type | One-channel two-fiber bidirectional optical module | | |
| No. | 1 | 2 | 3 |
| Reach | 0.3 km | 10 km | 40 km |
| Operating Wavelength | 850 nm | 1310 nm | 1550 nm |
| Encapsulation Type | SFP+ | SFP+ | SFP+ |
| Port Rate | 10 Gbit/s | 10 Gbit/s | 9.95-11.1 Gbit/s |
| Minimum Output Optical Power | -7.3 dBm | -8.2 dBm | -4.7 dBm |
| Maximum Output Optical Power | -1 dBm | 0.5 dBm | 4 dBm |
| Maximum Receiver Sensitivity | -9.9 dBm | -12.6 dBm | -14.1 dBm |
| Optical Connector Type | LC | LC | LC |
| Optical Fiber Type | Multi-mode | Single-mode | Single-mode |
| Overload Optical Power | -1 dBm | 0.5 dBm | 0.5 dBm |
| Extinction Ratio | 3 dB | 3.5 dB | 3 dB |

One-channel One-fiber Bidirectional 10GE Optical Module

| | | | | |
|-------------------------------------|--|--------------------------|---------------------------|---------------------------|
| Type | One-channel one-fiber bidirectional optical module | | | |
| No. | 1 | 2 | 3 | 4 |
| Reach | 10km | 10km | 40km | 40km |
| Operating Wavelength | Tx:1270nm Rx:1330nm | Tx:1330nm Rx:1270nm | Tx:1330nm Rx:1270nm | Tx:1270nm Rx:1330nm |
| Encapsulation Type | SFP+ | SFP+ | SFP+ | SFP+ |
| Port Rate | 2.5Gbit/s– 11.3Gbit/s | 2.5Gbit/s– 11.3Gbit/s | 9.95Gbit/s– 10.3Gbit/s | 9.95Gbit/s– 10.3Gbit/s |
| Minimum Output Optical Power | -8.2dBm | -8.2dBm | 0dBm | 0dBm |
| Maximum Output Optical Power | 0.5dBm | 0.5dBm | 5dBm | 5dBm |
| Maximum Receiver Sensitivity | -14.4dBm | -14.4dBm | -18dBm | -18dBm |
| Optical Connector Type | LC | LC | LC | LC |
| Optical Fiber Type | Single-mode | Single-mode | Single-mode | Single-mode |
| Overload Optical Power | 0.5dBm | 0.5dBm | -9dBm | -9dBm |
| Extinction Ratio | 3.5dB | 3.5dB | 3.5dB | 3.5dB |

GPON Optical Module

| | | | |
|-----------------------------|--|--|---|
| Type | One-fiber bidirectional optical module, class B+ | One-fiber bidirectional optical module, class C+ | One-fiber bidirectional optical module, class C++ |
| No. | 1 | 2 | 3 |
| Operating Wavelength | Tx: 1490 nm Rx: 1310 nm | Tx: 1490 nm Rx: 1310 nm | Tx: 1490 nm Rx: 1310 nm |
| Encapsulation Type | SFP | SFP | SFP |
| Port Rate | Tx: 2.488 Gbit/s Rx: 1.244 Gbit/s | Tx: 2.488 Gbit/s Rx: 1.244 Gbit/s | Tx: 2.488 Gbit/s Rx: 1.244 Gbit/s |

| | | | |
|-------------------------------------|-------------|-------------|-------------|
| Minimum Output Optical Power | 1.5 dBm | 3 dBm | 6 dBm |
| Maximum Output Optical Power | 5 dBm | 7 dBm | 10 dBm |
| Maximum Receiver Sensitivity | -28 dBm | -32 dBm | -35 dBm |
| Optical Connector Type | SC | SC | SC |
| Optical Fiber Type | Single-mode | Single-mode | Single-mode |
| Overload Optical Power | -8 dBm | -12 dBm | -15 dBm |
| Extinction Ratio | 8.2 dB | 8.2 dB | 8.2 dB |

Combo PON Optical Module (XG-PON&GPON)

| | | |
|-----------------------------|--|--|
| Type | One-fiber bidirectional optical module, class C+ | One-fiber bidirectional optical module, class D |
| No. | 1 | 2 |
| Operating Wavelength | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 1490 nm - Rx: 1310 nm ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 1490 nm - Rx: 1310 nm ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm |
| Encapsulation Type | SFP+ | SFP+ |

| | | |
|-------------------------------------|--|--|
| Port Rate | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 2.488 Gbit/s - Rx: 1.244 Gbit/s ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 2.488 Gbit/s | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 2.488 Gbit/s - Rx: 1.244 Gbit/s ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 2.488 Gbit/s |
| Minimum Output Optical Power | <ul style="list-style-type: none"> ● GPON channel: 4.5 dBm ● XG-PON channel: 5 dBm | <ul style="list-style-type: none"> ● GPON channel: 6 dBm ● XG-PON channel: 8 dBm |
| Maximum Output Optical Power | <ul style="list-style-type: none"> ● GPON channel: 8.5 dBm ● XG-PON channel: 9 dBm | <ul style="list-style-type: none"> ● GPON channel: 10 dBm ● XG-PON channel: 11 dBm |
| Maximum Receiver Sensitivity | <ul style="list-style-type: none"> ● GPON channel: -32 dBm ● XG-PON channel: -30.5 dBm | <ul style="list-style-type: none"> ● GPON channel: -35 dBm ● XG-PON channel: -33.5 dBm |
| Optical Connector Type | SC | SC |
| Optical Fiber Type | Single-mode | Single-mode |
| Overload Optical Power | <ul style="list-style-type: none"> ● GPON channel: -12 dBm ● XG-PON channel: -10 dBm | <ul style="list-style-type: none"> ● GPON channel: -15 dBm ● XG-PON channel: -13 dBm |
| Extinction Ratio | 8.2 dB | 8.2 dB |

XGS-PON Optical Module (SFP+)

| | | |
|-----------------------------|--|--|
| Type | One-fiber bidirectional optical module, N1 | One-fiber bidirectional optical module, N2 |
| No. | 1 | 2 |
| Operating Wavelength | Tx: 1577 nm Rx: 1270 nm | Tx: 1577 nm Rx: 1270 nm |
| Encapsulation Type | SFP+ | SFP+ |
| Port Rate | Tx: 9.953 Gbit/s Rx: 9.953/2.488 Gbit/s | Tx: 9.953 Gbit/s Rx: 9.953/2.488 Gbit/s |

| | | |
|-------------------------------------|---|---|
| Minimum Output Optical Power | 2 dBm | 4 dBm |
| Maximum Output Optical Power | 5 dBm | 7 dBm |
| Maximum Receiver Sensitivity | <ul style="list-style-type: none"> ● XG-PON channel: -27.5 dBm ● XGS-PON channel: -26 dBm | <ul style="list-style-type: none"> ● XG-PON channel: -29.5 dBm ● XGS-PON channel: -28 dBm |
| Optical Connector Type | SC | SC |
| Optical Fiber Type | Single-mode | Single-mode |
| Overload Optical Power | <ul style="list-style-type: none"> ● XG-PON channel: -7 dBm ● XGS-PON channel: -5 dBm | <ul style="list-style-type: none"> ● XG-PON channel: -9 dBm ● XGS-PON channel: -7 dBm |
| Extinction Ratio | 8.2 dB | 8.2 dB |

Combo PON Optical Module (XGS-PON&GPON)

| Type | One-fiber bidirectional optical module, class B+ | One-fiber bidirectional optical module, class C+ | One-fiber bidirectional optical module, class D |
|-----------------------------|--|--|--|
| No. | 1 | 2 | 3 |
| Operating Wavelength | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 1490 nm - Rx: 1310 nm ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm ● XGS-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 1490 nm - Rx: 1310 nm ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm ● XGS-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 1490 nm - Rx: 1310 nm ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm ● XGS-PON channel: <ul style="list-style-type: none"> - Tx: 1577 nm - Rx: 1270 nm |
| Encapsulation Type | SFP+ | SFP+ | SFP+ |

| | | | |
|-------------------------------------|--|--|--|
| Port Rate | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 2.488 Gbit/s - Rx: 1.244 Gbit/s ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 2.488 Gbit/s ● XGS-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 9.953 Gbit/s | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 2.488 Gbit/s - Rx: 1.244 Gbit/s ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 2.488 Gbit/s ● XGS-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 9.953 Gbit/s | <ul style="list-style-type: none"> ● GPON channel: <ul style="list-style-type: none"> - Tx: 2.488 Gbit/s - Rx: 1.244 Gbit/s ● XG-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 2.488 Gbit/s ● XGS-PON channel: <ul style="list-style-type: none"> - Tx: 9.953 Gbit/s - Rx: 9.953 Gbit/s |
| Minimum Output Optical Power | <ul style="list-style-type: none"> ● GPON channel: 1.5 dBm ● XG-PON channel: 1 dBm ● XGS-PON channel: 1 dBm | <ul style="list-style-type: none"> ● GPON channel: 3 dBm ● XG-PON channel: 5 dBm ● XGS-PON channel: 5 dBm | <ul style="list-style-type: none"> ● GPON channel: 6 dBm ● XG-PON channel: 8 dBm ● XGS-PON channel: 8 dBm |
| Maximum Output Optical Power | <ul style="list-style-type: none"> ● GPON channel: 5 dBm ● XG(S)-PON channel: 4 dBm | <ul style="list-style-type: none"> ● GPON channel: 7 dBm ● XG(S)-PON channel: 8 dBm | <ul style="list-style-type: none"> ● GPON channel: 10 dBm ● XG(S)-PON channel: 11 dBm |
| Maximum Receiver Sensitivity | <ul style="list-style-type: none"> ● GPON channel: -28 dBm ● XG-PON channel: -26.5 dBm ● XGS-PON channel: -25 dBm | <ul style="list-style-type: none"> ● GPON channel: -32 dBm ● XG-PON channel: -30.5 dBm ● XGS-PON channel: -29 dBm | <ul style="list-style-type: none"> ● GPON channel: -35 dBm ● XG-PON channel: -33.5 dBm ● XGS-PON channel: -32 dBm |
| Optical Connector Type | SC | SC | SC |
| Optical Fiber Type | Single-mode | Single-mode | Single-mode |

| | | | |
|-------------------------------|---|---|--|
| Overload Optical Power | <ul style="list-style-type: none"> ● GPON channel: -8 dBm ● XG-PON channel: -6 dBm ● XGS-PON channel: -4 dBm | <ul style="list-style-type: none"> ● GPON channel: -12 dBm ● XG-PON channel: -10 dBm ● XGS-PON channel: -8 dBm | <ul style="list-style-type: none"> ● GPON channel: -15 dBm ● XG-PON channel: -13 dBm ● XGS-PON channel: -11 dBm |
| Extinction Ratio | 8.2 dB | 8.2 dB | 8.2 dB |