



Focuscom



EP5800 Series

Pizza Box EPON OLT

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Product Overview

The EP5800-04/08 is highly integrated, medium-capacity EPON OLT for operators, ISPs, enterprises and park applications. The product follows the IEEE802.3ah technical standard. The software functions are good openness, strong compatibility, high reliability, and complete. EP5800-04/08 can be widely used in operators' FTTH access, government and enterprise park access, campus network access, ETC.

EP5800-04/08 is only 1U in height, easy to install and maintain, and save space, supporting mixed networking of different types of ONUs, which can save a lot of costs for operators.

Product Highlight

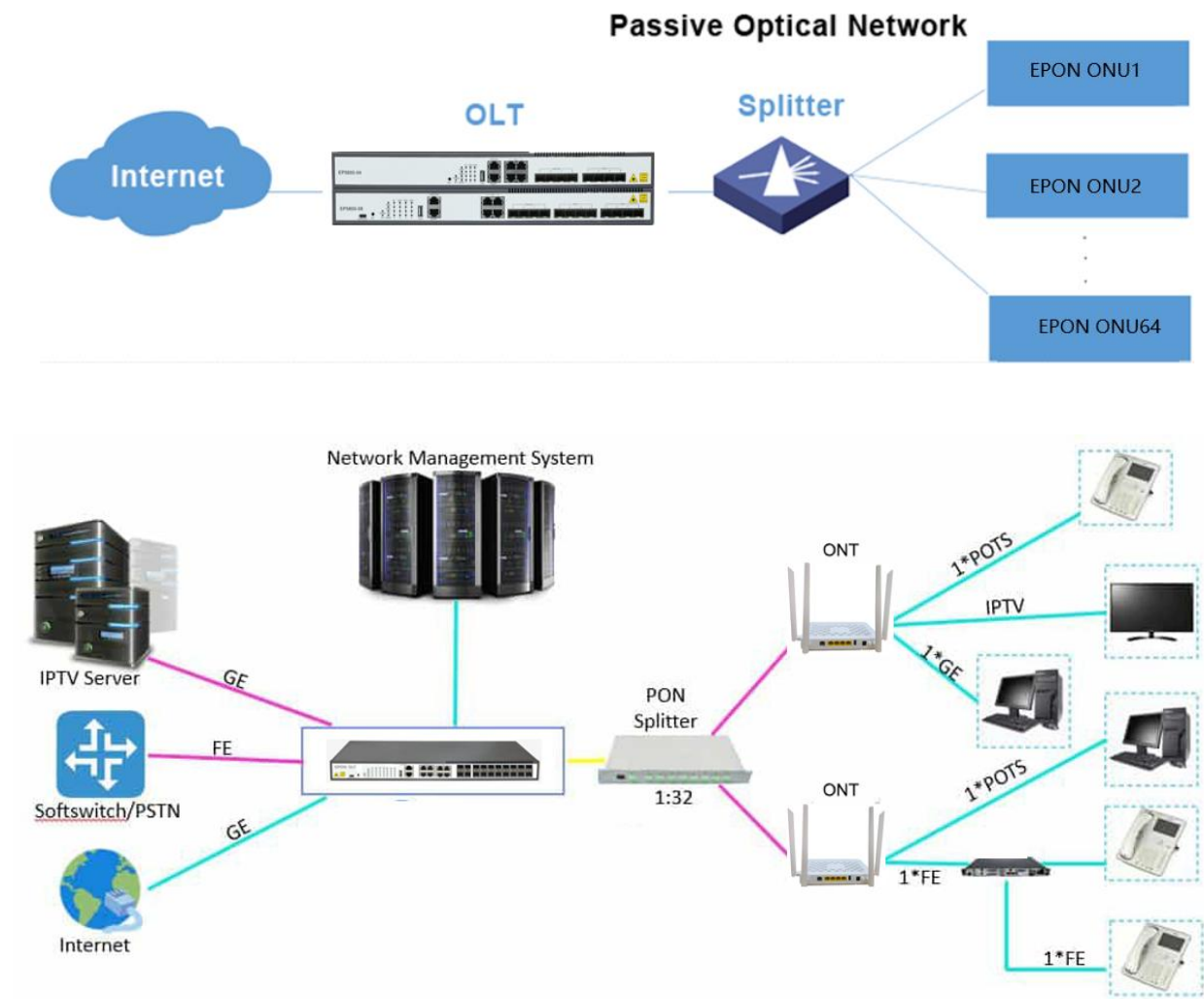
- Rich Layer 2/3 switching features and Flexible management methods
- Support multiple link redundancy protocols such as FlexLink/STP/RSTP/MSTP/LACP
- Support RIP、 OSPF
- Support Power redundancy backup,
- Support power failure alarm
- Type C management interface (8/16 PON)

Device Brief Information

	EP5800-04
	• 4*EPON Port • 4*10/100/1000M Base-T • 4*10GE SFP+ • 1 * RJ45 serial port • 1 * Out of band management port • 1 * USB interface
	EP5800-08
	• 8*EPON Port • 4*10/100/1000M Base-T • 4*10GE SFP+ • 1 * RJ45 serial port • 1 * Type C port • 1 * Out of band management port • 1 * USB interface

Solution Display

The EPON system usually consists of the OLT at the office side, the ONU and the ODN at the user side, and adopts a point-to-multipoint network structure. The ODN consists of single-mode optical fibers and passive optical devices such as optical splitters and optical connectors. It provides the optical transmission medium for the physical connection between the OLT and ONU.Implement FTTX service deployment application.



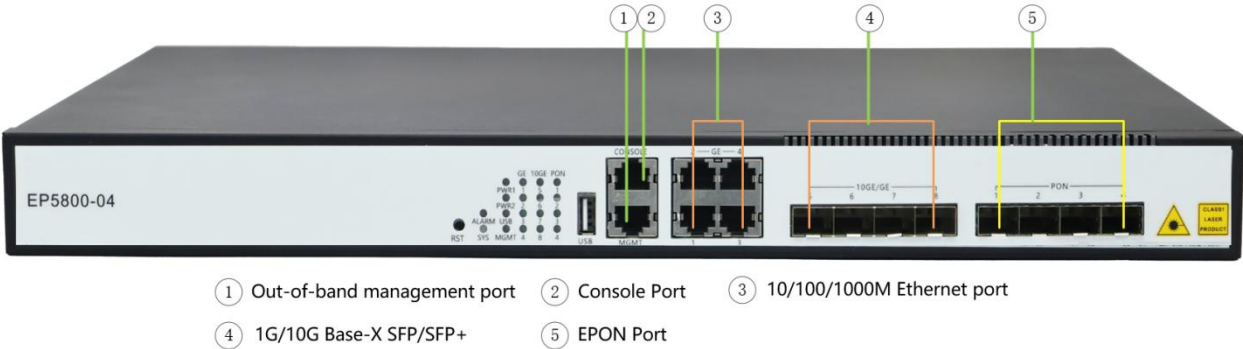
Hardware Specification

Attributes	EP5800-04	EP5800-08
Interface	4*EPON Port, 4*10/100/1000M Base-T, 4*1000M Base-X SFP/4*10GE SFP+	8*EPON Port, 4*10/100/1000M Base-T, 4*1000M Base-X SFP/4*10GE SFP+
Exchange Capacity	96Gbps	104Gbps
Forwarding Rate	71.424Mpps	77.376Mpps
Memory and Storage	Memory: 512MB, storage: 32MB	
Management Port	Console, MGMT	Console, Type C, MGMT
PON	1:64 Max splitting ratio	
MAC	16K	
Multicast	1K	
ARP	2K	
Route	512	
Weight	≤3kg	≤4kg
Fan	Fixed fans (two fans)	Fixed fans (three fans)
Power	AC: 100 ~ 240V 40/60Hz; DC: 40V ~ 60V;	

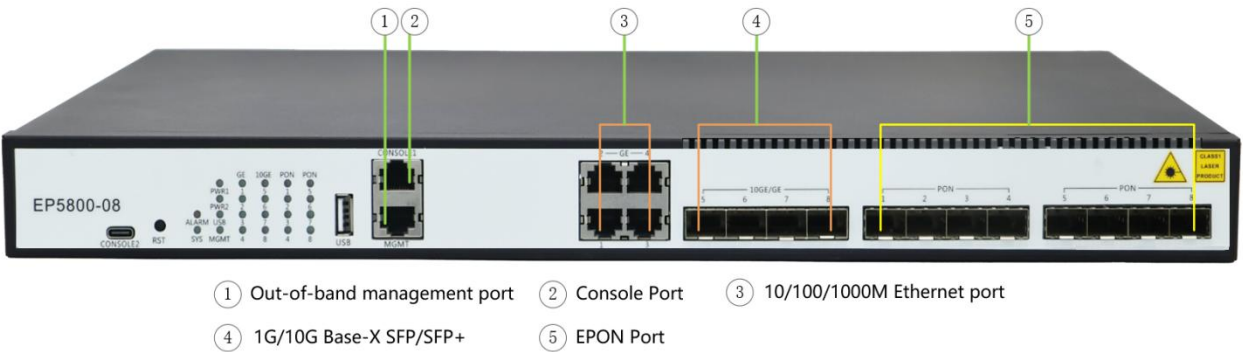
Power Consumption	≤38W	≤49W
Dimensions (W *H *D)	440mm*44mm*200mm	440mm*44mm*260mm
Environment Temperature	Working Temperature: -10℃ ~ 55℃ Storage temperature: -40℃ ~ 70℃	
Environment Humidity	Operating humidity: 10% ~ 95% (non-condensing) Storage humidity: 10% ~ 95% (non-condensing)	
Environment Friendly	China RoHS, EEE	

Panel view

1) EP5800-04



2) EP5800-08



LEDs Operating Status

The operation status of EP5800 can be determined by using the front LED. The panel LED indicator will display the status of each interface. The meaning of LED is shown in the following table.

LEDs/Buttons	Color	Function	Description	
SYS	Green	System running status	Green OFF	The device is not running or power off.
			Green Flash	The device is running normally.
ALARM	Red	Critical alarms	ON	Critical alarms are reported for the card.
			OFF	No critical alarm is reported for the card.
MGMT	Green	Port status	ON	The link is properly connected (link up) and in action

			OFF	The link is interrupted (link down).
USB	Green	Port status	ON	The USB flash drive peripheral is inserted.
			OFF	None USB flash drive external insert.
PWR 1-2	Green	Power status	ON	The AC/DC power module is normal.
			OFF	The AC/DC power module faulty or unavailable.
GE	Green	Port status	ON	The link is properly connected (link up) and in action
			OFF	The link is interrupted (link down).
1G/10G SFP	Green	Port status	ON	The link is properly connected (link up) and action
			OFF	The link is interrupted (link down).
PON 1~8	Green	PON port status	ON	At least one ONU has been successfully registered.
			OFF	No ONU has been successfully registered.
RST	N/A	Reset button	Long press on the RST button for to restart the equipment.	

Plug-In Units

The device has a built-in power template and supports two power ports. The power supply unit (PSU) feeds the proper power voltage to the base board of OLT. Two PSUs are possible to be mounted into rear of the chassis and it can be DC or AC type of PSU. Therefore, you need to decide to choose proper power supply unit according to installation environment.

The power connector (AC and DC type) for main power supply is located on the rear panel of the PSU. For redundant power feeding, the second PSU has to be used.

The below shows the electrical characteristics of the OLT:

Characteristic	EP5800 Series
Nominal DC power supply	DC: 36V ~ 75V
Nominal AC power supply	AC: 100 ~ 240V; 47/63Hz
AC Rated power of power supply	50W
DC Rated power of power supply	48W

FAN Unit

The device has built-in fan units. The number of fan units varies according to the chassis structure.

Characteristic	FAN
EP5800-04	2*FAN
EP5800-08	3*FAN

Software Specification

Attributes	EP5800 Series
PON	Support dynamic bandwidth allocation (DBA) Support ONU discovery/link detection/remote batch software upgrade Support standard OAM and extended OAM Support LOID authentication Support dynamic distance measurement Support P2P functionality Support PON port loop detection Support rogue ONU detection
VLAN	Support 4K VLAN Support VLAN based on port, MAC and protocol Support dual Tag VLAN, port-based static Q-in-Q and flexible Q-in-Q
MAC	64K Mac address Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit
Ring Network Protocol	Support STP/RSTP/MSTP Support ERPS Ethernet ring network protection protocol Support Loopback-detection port loopback detection
Port Control	Support two-way bandwidth control Support port storm suppression Support 9K Jumbo ultra-long frame forwarding
Port Aggregation	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports
Mirroring	Support port mirroring Support stream mirroring
ACL	Support standard and extended ACL Support ACL policy based on time period Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.
QoS	Support flow rate limiting function based on custom business flow Supports mirroring and redirection functions based on custom business flows Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function, support queue scheduling algorithms such as SP/WRR/SP+WRR
VLAN	Support 4K VLAN

	Support VLAN based on port, MAC and protocol Support dual Tag VLAN, port-based static Q-in-Q and flexible Q-in-Q
Safety	Support user hierarchical management and password protection Support Radius&TACACS+ authentication Support MAC address learning limit, support black hole MAC function Support port isolation Support broadcast message rate suppression Support IP Source Guard Support ARP flood suppression and ARP spoofing protection
Layer3 Routing	Support ARP learning and aging Support static route Support dynamic route RIP/OSPF/BGP/ISIS
System management	CLI、Telnet、WEB、SNMP V1/V2/V3、SSH2.0 Support FTP, TFTP file upload and download Support SNTP Support LLDP neighbor device discovery protocol Support Ping and Traceroute

Connector Specifications

The OLT provides standardized interfaces, thus facilitating rapid and trouble-free integration into the existing network infrastructures.

PON Interfaces

The OLT contains 4/8 EPON interface ports for SFP modules and below table is available.

EPON module list.

1	SFP EPON OLT - Wavelength: 1490nm/1310nm / Distance: 20km / Mode: single mode - Connector: SC/PC / Data rate: 1.25Gbit/s (Up), 1.25Gbit/s (Down) - Core type: Single Core / Operating Temperature: 0 °C ~ 70 °C
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Network Interfaces

The OLT optical interface ports for SFP/SFP+ modules and below table is available SFP/SFP+ module list.

Index	SFP/SFP+ Module Description
1	- Wavelength: 850 nm / Distance: 550 m / Mode: multi-mode - Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
2	- Wavelength: 1310nm / Distance: 5km / Mode: single-mode - Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C – 70 °C
3	- Wavelength: 1310 nm / Distance: 10 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C – 70 °C
4	- Wavelength: 1310 nm / Distance: 15 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C – 70 °C

5	- Wavelength: 1310 nm / Distance: 20 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
6	- Wavelength: 1310 nm / Distance: 40 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
7	- Wavelength: 850nm / Distance: 300m / Mode: Multimode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 10GBASE-SR (10G)
8	- Wavelength: 850nm / Distance: 300m / Mode: Multimode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 1000BASE-SX (1G), 10GBASE-SR (10G)
9	- Wavelength: 1310nm / Distance: 10Km / Mode: Single mode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 10GBASE-LR (10G)

Purchase Info

Model Number	Description
EP5800-04	4*PON port, 4*10GE/GE SFP +4GE RJ45 uplink port, with optional dual power
EP5800-08	8*PON port, 4*10GE/GE SFP +4GERJ45 uplink port, with optional dual power



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