

## Overview

Huawei EA5801E-GP16 is a small, low-density box-type OLT that supports FTTH network construction mode and provides users with a unified bearer platform for multiple services

Huawei EA5801E-GP16 is a box-shaped Optical Line Terminal (OLT) with Gigabit Passive Optical Network (GPON) access, supporting both Passive Optical LAN (POL) and Fiber To The Home (FTTH) solutions. It carries all services over a single fiber network, considerably simplifying network architecture as well as reducing Operating Expense (OPEX).

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.
GPON port	PON: 0-15	16	Provides 16 GPON ports for GPON service access
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.

## Quick Specification

Model	Huawei OptiXaccess EA5801E-GP16
Dimensions (H x W x D)	Excluding mounting ears: 43.6 x 442 x 220 mm
	Including IEC mounting ears: 43.6 x 482.6 x 220 mm
	Including ETSI mounting ears: 43.6 x 535 x 220 mm
Maximum Fully-Loaded Weight (DC)	4.2 kg
Maximum Fully-Loaded Weight (AC)	4.6 kg

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Power Supply Mode	DC power supply (dual backup)
	AC power supply (dual backup)
Service Ports	16 GPON

## Product Details:

### The Front Panel:



### Features Huawei OptiXaccess EA5801E-GP16 provides:

- **Adaptable to Diverse Scenarios**  
Requires only 1U installation space for small-scale AP convergence, meeting service-bearing requirements for an enterprise or campus with just a single OLT.
- **Flexible Installation**  
Rapid Deployment and Installation Suitable for installation in both indoor and outdoor cabinets, the OLT can withstand high temperatures, saving both manpower and cabinet space.

### Accessories For OptiXaccess EA5801E-GP16:

#### One-channel Two-fiber Bidirectional GE Optical Module:

Type	One-channel two-fiber bidirectional optical module	
No.	1	2



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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
Reach	10 km	40 km
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
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
Reach	10 km	10 km	40 km	40 km
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
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
Reach	0.3 km	10 km	40 km
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
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





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Reach	10km	10km	40km	40km
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

Get more information:

Do you have any question about OptiXaccess EA5801E-GP16?

Contact us now via e-mail: [info@hi-network.com](mailto:info@hi-network.com)

## Specific Data Sheet:

Model	Huawei OptiXaccess EA5801E-GP16
Dimensions (H x W x D)	Excluding mounting ears: 43.6 x 442 x 220 mm
	Including IEC mounting ears: 43.6 x 482.6 x 220 mm
	Including ETSI mounting ears: 43.6 x 535 x 220 mm
Maximum Fully-Loaded Weight (DC)	4.2 kg





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Maximum Fully-Loaded Weight (AC)	4.6 kg
Power Supply Mode	DC power supply (dual backup)
	AC power supply (dual backup)
Service Ports	16 GPON
Working Voltage Range	DC power supply: -38.4 V to -72 V
	AC power supply: 100-240 V
Rated Voltage	DC power supply: -48/-60 V
	AC power supply
Maximum Input Current	DC power supply: 6 A
	AC power supply: 2.5 A
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 the device. Therefore, the working environment temperature of the device varies with the altitude.
System Switching Capacity	140 Gbit/s
MAC Addresses	32,768
Access ONT	1024
IPv4 Routing Table	8192
IPv6 Routing Table	4096
ARP Table	16,384
Bit Error Rate (BER) in Full Load	A BER smaller than $10^{-7}$ for a port that transmits data in full load.
10 GE/GE Upstream Ports	4
Ambient Temperature	-40°C to +65°C
	The device can start up at temperatures as low as -25°C.
	Note: 65°C refers to the highest temperature measured at the air intake vent of a service subrack.
Power Consumption	Static power consumption: 55 W
	Typical power consumption: 95 W
	Maximum power consumption: 140 W
	Note: The power consumption of a product is tested in the following conditions
	<ul style="list-style-type: none"> <li>• Static power consumption: 25°C, no optical module in optical ports, and no service.</li> </ul>
	<ul style="list-style-type: none"> <li>• Typical power consumption: 25°C, 4 x 10 GE upstream ports, 16 x GPON ports on the user side, full services, and maximum traffic.</li> <li>• Maximum power consumption: 65°C, 4 x 10 GE upstream ports, 16 x GPON ports on the user side, full services, and maximum traffic.</li> </ul>



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