

EDP Series GPON ONU+

Optical



Product Overview

EDP series is a broadband access HGU designed to meet the demands of fixed network operators for FTTH and triple-play services.

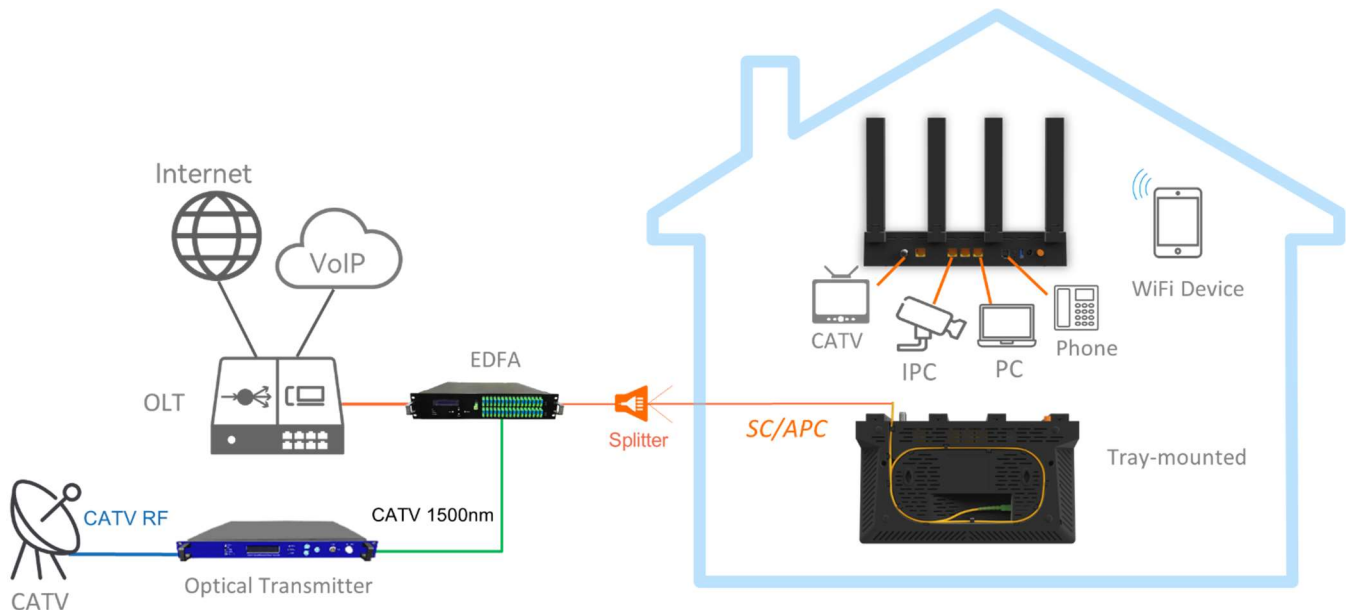
This ONT is based on a high-performance chip solution, supporting XPON dual-mode technology (EPON and GPON). With Wi-Fi speeds of up to 1500Mbps, it also supports IEEE 802.11b/g/n/ac/ax WiFi6 technology and other Layer 2/Layer 3 features, providing data services for carrier-grade FTTH applications. In addition, this ONT supports OAM/OMCI protocols, allowing configuration and management of various services on the ETL OLT, making it easy to manage and maintain, and ensuring QoS for various services. It complies with international technical standards such as IEEE802.3ah and ITU-T G.984.

With a bottom disc fiber structure design, it can be placed on a desktop or wall-mounted, adapting effortlessly to various scene styles.

*** Note that the picture of the product varies for different models of the EDP Series. Refer to the ordering information section for details on the options.**

Features

- Providing complete series of FTTH solutions for pure data, double play and triple play services, both indoor and outdoor types can be applied to meet the different application environment.
- Smart connection by multiple kinds of UNIs: GE, FE, Wi-Fi, VoIP, CATV, USB.
- Support user-friendly GUI with plug-in and play capability instead of field configuration.
- High efficiency management and maintenance with port-based mode configuration as well as port-based status query.
- Carrier-level reliability in hardware/software and other system design to fully guarantee the normal operation of equipment.
- Next-Gen Gigabit WiFi6 2.4GHz & 5GHz. Dual Band Speed up to 3.0Gbps



Specifications

General	
GPON Standards	ITU-T G.984.2, ITU-T G.984.3 and ITU-T G.984.4
EPON Standards	IEEE802.3ah
PON Interface	1XPON port (EPON PX20+ and GPON Class B+) SC single mode, SC/APC connector TX optical power: 0~+4dBm RX sensitivity: -27dBm Overload optical power: -3dBm (EPON) or -8dBm (GPON) Transmission distance: 20KM Wavelength: TX 1310nm, RX 1490nm
GPON Data Rates	Upstream:1.25Gbps, Downstream:2.5Gbps
Wireless Features	2.4GHz 2x2, 5.8GHz 2x2, 5dBi antenna, rate up to 3.0Gbps, Multiple SSID

	<p>Encryption: WEP-64/WEP-128/ WPA/WPA2/WPA3</p> <p>Support OFDMA, MU-MIMO, Dynamic QoS, 1024-QAM</p> <p>Smart Connect for “one Wi-Fi name” to “one SSID” for 2.4GHz and 5GHz dual band.</p> <p>Support WIFI Easy mesh function.</p>
Wireless Standards	<p>WiFi5: IEEE802.11a/n/ac(5GHz), IEEE802.11b/g/n(2.4GHz)</p> <p>WiFi6: IEEE802.11a/n/ac/ax(5GHz), IEEE802.11b/g/n(2.4GHz)</p>
Wireless Signal Rate	<p>AC12: 867Mbps(5GHz) + 300Mbps(2.4GHz)</p> <p>AX15: 1201Mbps(5GHz) + 300Mbps(2.4GHz)</p> <p>AX18: 1201Mbps(5GHz) + 574Mbps(2.4GHz)</p> <p>AX30: 2402Mbps(5GHz) + 574Mbps(2.4GHz)</p>
Wireless Transmit Power	<p>5GHz:</p> <p>HT40 MCS7 TX 19dBm</p> <p>VHT80 MCS9 TX 17dBm</p> <p>2.4GHz:</p> <p>HT40 MCS7 TX 18dBm</p>
Wireless Receive Sensitivity	<p>5GHz:</p> <p>HT40 MCS7 RX Sen -73dBm</p> <p>VHT80 MCS9 RX Sen -62dBm</p> <p>2.4GHz:</p> <p>HT40 MCS7 RX Sen -72dBm</p>
VoIP	<p>SIP and IMS SIP</p> <p>G.711a/G.711u/G.722/G.729 Codec</p> <p>Echo cancellation, VAD/CNG, DTMF Relay</p> <p>T.30/T.38 FAX</p> <p>Caller Identification/Call Waiting/Call Forwarding/Call Transfer/Call Hold/3-way Conference</p> <p>Line testing according to GR-909</p>
CATV	<p>Optical receiving wavelength: 1550±10nm</p> <p>Optical input range: +2~-18dBm</p> <p>Optical reflection loss: ≥40dB</p> <p>RF frequency range: 47~1000MHz</p> <p>RF output impedance: 75Ω</p> <p>RF output level and AGC range:</p> <p>≥81±2dBuV@+1~-10dBm, ≥79±2dBuV@ 0~-11dBm</p> <p>≥77±2dBuV@-1~-12dBm, ≥75±2dBuV@-2~-13dBm</p> <p>≥73±2dBuV@-3~-14dBm, ≥71±2dBuV@-4~-15dBm</p> <p>MER: ≥32dB (-14dBm optical input)</p>
Hardware	
Dimension	260.4mm×157.4mm×45.8mm(L×W×H)

Interfaces	1 x Power Port 1 x SC/APC XPON Port 4 x 10/100/1000Mbps LAN Port 1 x VoIP FXS Port (optional) 1 x USB3.0 Port (optional) 1 x CATV Coax Port (optional)
Buttons	Power ON/OFF Button, WPS Button, Reset Button
Power Supply	≤18W
Power adapter	Input: AC 100~240V; Output: DC 12V 1.5A
Antenna	2 x 2.4GHz and 2 x 5.8GHz 5dBi fixed external antennas
LED Indicators	PWR, PON, LOS, WAN, LAN1~4, 2.4G, 5G, WPS, FXS, USB, CATV
Software Features	
Status	Device Info, WAN Status, PON Status, BOSA Status, LAN Status, WLAN Status, DHCP Server Status, Easy mesh Status, CATV Status, Package Statistics
WAN Type	Mode: Route, Bridge Connection Type: DHCP, Static, PPPoE Service Mode: Internet, TR069, VOIP
Multicast	IGMP v1/v2/v3, IGMP snooping MLD v1/v2 snooping
DHCP	Server, Client, Relay, DHCP Client List, Address Reservation
Wireless Quality of Service	WMM, Bandwidth Control, Radio Power Control, Reg Domain Control, Channel Control
Data Control	Virtual Server, Port Triggering, DDNS, FTP, UPnP, DMZ, ALG, IP QoS
VLAN	802.1Q tag VLAN, VLAN transparent mode/VLAN translation mode/VLAN trunk mode
Access Control	Parental Control, Local Management Control, Host List, Access Schedule, Rule Management
Firewall Security	Anti-DDoS, SPI Firewall IP Address Filter / MAC Address Filter / Domain Filter IP / MAC Address Binding
VOIP Features	RJ-11 FXS port for connecting to analog telephones. Call forwarding, Call waiting, Call block, 3-way conference call, etc.
Management	Access Control Local Management, Remote Management, LOG Management, Diagnostics
Internet Protocol	IPv4, IPv6, 802.1d&802.1ad bridge, 802.1p Cos, 802.1Q VLAN, NAT, DDNS
Wireless Features	Easy Mesh R1 Roaming 802.11k/v/r, Band Steering(option)

Environment	
Operating Temperature	-10°C~55°C (14°F~131°F)
Storage Temperature	-40°C~70°C (-40°F~158°F)
Relative Humidity	5%~95%, non-condensing
Storage Humidity	5%~95%, non-condensing
Certifications	CE, RoHS

Package Contents	
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Ordering Information

Product Family		Type	#Ports		#GE Ports	#FE Ports	
1, 2, 3	4	5	6	7	8	9	10
EDP	-	G	1	-	4	0	-

Wi-Fi		FXS	CATV	USB		Wall Adaptor	
11, 12	13	14	15	16	17	18	
15	-	1	1	1	-	3	

Field 5 X: XG-PON; G: GPON; E: EPON

Field 6 Number of PON Ports: 1 (WDM if CATV is supported) or 2 (2nd for dedicated CATV)

Field 8 Number of Gigabit Ethernet Ports (0, 1, 2 or 4)

Field 9 Number of Fast Ethernet Ports (0, 1, 3 or 4)

Field 11,12 12: Dual band WiFi5 with Total Speed 1200Mbps; 15: Dual band WiFi6 with Total Speed 1500Mbps;
18: Dual band WiFi6 with Total Speed 1800Mbps; 30: Dual band WiFi6 with Total Speed 3000Mbps

Field 14 Number of Plain Old Telephone System (POTS) (0=Not Support, 1=One POTS or 2=Two POTS)

Field 15 CATV Support (0=Not support; 1=CATV support)

Field 16 Number of USB Port (0=Not Support, 1=One USB Port)

Field 18 Wall adapter: 0 (no wall adapter), 1 (North American), 2 (European), 3(Argentina), 4 (South American)

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