

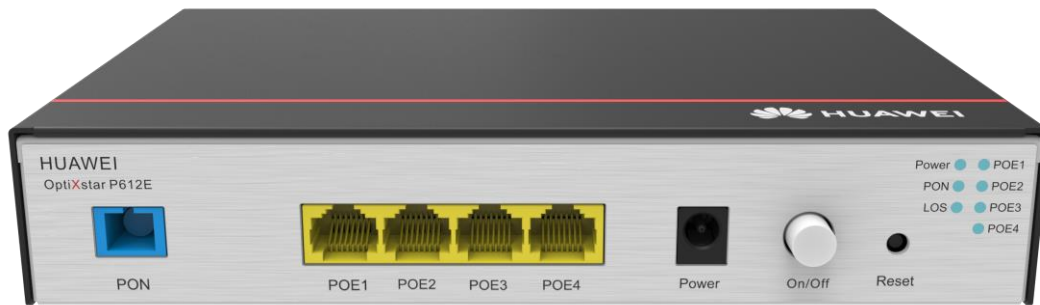
# Huawei OptiXstar P612E Datasheet 03

Enterprise-Level Routing Gateway ONU

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## Product Overview

The Huawei OptiXstar P612E is an ONU designed for scenarios such as enterprise campus and video backhaul. It provides 4 GE ports with PoE/PoE+ to provide high-quality voice, data, and HD video services.



## Product Highlights

- 802.1x and IPv6/IPv4 firewalls ensure device access security and network security.
- The PoE/PoE+ function supports flexible power supply.
- Features high reliability,type B dual-homing service protection.

## Technical Specifications

|                              |   |                                  |   |
|------------------------------|---|----------------------------------|---|
| <b>Dimensions (WxDxH)</b>    | 190mm x 130mm x 35mm(Without floor mat) | <b>UNI</b>                       | 4*GE(PoE/PoE+)  |
| <b>Weight</b>                | About 800 g                             | <b>NNI</b>                       | GPON  |
| <b>Operating temperature</b> | -5°C to +45°C                           | <b>Static power consumption</b>  | 7 W   |
| <b>Operating humidity</b>    | 5%RH to 95%RH (non-condensing)          | <b>Maximum power consumption</b> | 9 W (POE port without PD)<br>77 W (POE port with PD having the maximum power consumption) |

|                            |                          |  |  |
|----------------------------|--------------------------|--|--|
| <b>Storage temperature</b> | -40°C to +70°C           | <b>Maximum PoE output power</b>        | Gross power 60W (up to 30W for one GE port)  |
| <b>Power adapter input</b> | 100V to 240V AC, 50/60Hz | <b>Surge protection specifications</b> | GE: common mode 4 kV; differential mode 0.5 kV.<br>AC power : common mode 6 kV; differential mode 6 kV |
| <b>System power supply</b> | 56V DC, 1.42A            | <b>Installation mode</b>               | Support indoor desktop installation, wall mounting, or network box installation.                       |

## Port Parameters

| GPON   | GE   |
|--|--|
| <ul style="list-style-type: none"> <li>Port type: SC/UPC</li> <li>Complying with ITU-T G.984.2, Class B+</li> <li>Receiver sensitivity: -27dBm ~ -29dBm;</li> <li>Overload optical power: -8dBm;</li> <li>Transmission rate: upstream 1.244 Gbit/s, downstream 2.488 Gbit/s</li> <li>Type B single-homing</li> <li>Type B dual-homing (supported in Layer 2 forwarding)</li> </ul> | <ul style="list-style-type: none"> <li>PoE and PoE+, complying with IEEE 802.3af and IEEE 802.3at</li> <li>Port type: RJ-45</li> <li>Auto ports speed (10/100/1000 Mbit/s)</li> <li>Auto-MDI/MDIX</li> <li>Configuration of the number of MAC addresses learned</li> <li>VLAN transparent transmission/VLAN filtering</li> </ul> |

## Function List


| Automatic Service Provisioning  | Smart O&M   | Layer 3 Features   | Security  |
|---|---|--|---|
| <ul style="list-style-type: none"> <li>Authentication exemption</li> <li>XML/OMCI/TR069</li> </ul>  | <ul style="list-style-type: none"> <li>XML/Web UI</li> <li>Rogue ONT detection and self-regulation</li> <li>Ring network detection/PPPoE/DHCP simulation testing</li> </ul> | <ul style="list-style-type: none"> <li>Default/Static/Policy/Service routes</li> <li>VLAN binding</li> <li>ALG/UPnP/ARP</li> <li>DDNS/DMZ/DNS/NAPT</li> <li>PPPoE/Static IP/DHCP</li> <li>Port mapping/Port trigger</li> <li>IPv6</li> </ul> | <ul style="list-style-type: none"> <li>802.1x</li> <li>IPv6/IPv4 firewalls</li> <li>Filtering based on MAC/IP/URL</li> <li>DoS/ARP anti-attacks</li> <li>Static MAC address binding</li> <li>Device access control</li> <li>Web session number restriction</li> </ul> |
| Multicast   | QoS   | Layer 2 Management   |   |
| <ul style="list-style-type: none"> <li>IGMP v2/v3 snooping</li> <li>Dynamic controllable multicast</li> <li>IGMP proxy</li> <li>MLDv1/MLDv2 snooping</li> </ul> | <ul style="list-style-type: none"> <li>Ethernet port rate limitation</li> <li>802.1p priority</li> <li>SP/WRR/SP+WRR</li> </ul>   | <ul style="list-style-type: none"> <li>DHCP Option82</li> <li>PITP</li> <li>BPDU transparent transmission</li> <li>LLDP/LLDP-MED</li> </ul>  |   |

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