

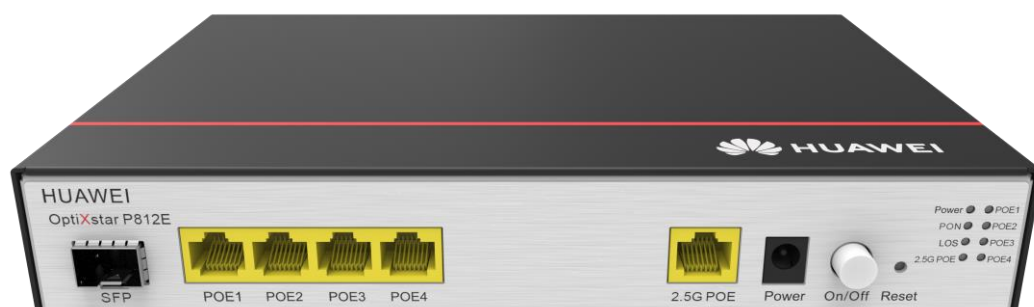
# Huawei OptiXstar P812E Datasheet

Enterprise-Level Routing Gateway ONU

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## Product Overview

The OptiXstar P812E is an ONU designed for scenarios such as enterprise campus and video backhaul. It provides 4 GE ports and 1 2.5GE port 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.
- Supports XGS-PON uplink, 2.5G high bandwidth access.
- The PoE/PoE+ function supports flexible power supply.
- Features high reliability,type B dual-homing service protection.

## Technical Specifications

<b>Dimensions (WxDxH)</b>	220mm x 150mm x 35mm(Without floor mat)	<b>UNI</b>	4*GE+1*2.5GE <b>NOTE</b> Both the GE and 2.5GE ports support PoE/PoE+.
<b>Weight</b>	About 1030 g	<b>Static powerconsumption</b>	8.5 W
<b>Operating temperature</b>	-5°C to +45°C	<b>Maximum power</b>	12 W (POE port without PD) 78 W (POE port with PD having the maximum

		<b>consumption</b>	power consumption)
<b>Operating humidity</b>	5%RH to 95%RH (non-condensing)	<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/2.5GE: common mode 4 kV; differential mode 0.5 kV. 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.
<b>NNI</b>	XGS-PON	<b>Heat Dissipation Mode</b>	Natural heat dissipation

## Port Parameters

SFP	GE/2.5GE
<ul style="list-style-type: none"> <li>XGS-PON optical module, port type: SC/UPC</li> <li>XGS-PON; <ul style="list-style-type: none"> <li>Class N1/N2;</li> <li>Receiver sensitivity: -28dBm;</li> <li>Overload optical power: -9dBm;</li> <li>Transmission rate: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s</li> </ul> </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>GE ports: Auto ports speed (10/100/1000 Mbit/s)</li> <li>2.5GE ports: Auto ports speed (1000/2500 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	MTU & Jumbo Frame
<ul style="list-style-type: none"> <li>IGMP v2/v3 snooping</li> <li>Dynamic controllable multicast</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet port rate limitation</li> <li>802.1p priority</li> </ul>	<ul style="list-style-type: none"> <li>DHCP Option82</li> <li>PITP</li> <li>BPDU transparent</li> </ul>	<ul style="list-style-type: none"> <li>MTU: A maximum of 2000 MTUs are supported.</li> <li>Jumbo frame: A</li> </ul>

<ul style="list-style-type: none"> <li>IGMP proxy</li> <li>MLDv1/MLDv2 snooping</li> </ul>	<ul style="list-style-type: none"> <li>SP/WRR/SP+WRR</li> </ul>	transmission <ul style="list-style-type: none"> <li>LLDP/LLDP-MED</li> <li>QinQ VLAN</li> </ul>	maximum of 9600 frames are supported.  <b>NOTE</b> The configurations of the MTU and jumbo frames vary according to the market. The actual configurations prevail.
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