

# Huawei OptiXstar P815E-X Datasheet

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## Product Overview

Huawei OptiXstar P815E-X supports 4\*XGE and 24\*GE ports, bringing high-quality business experiences. The device supports PoE++. It transmits power while transmitting data over Ethernet cables, which effectively solves power supply problems for terminals such as indoor access points (APs).



## Product Highlights

- 802.1x ensure device access security.
- Supports XGS-PON uplink access.
- Supports -40° C to +55° C wide temperature range with strong environment adaptability.
- The PoE++ function supports flexible power supply.
- Features high reliability, and supports type B and type C service protection.
- Centralized management on eSight.

## Technical Specifications

<b>NNI</b>	2*XGS-PON(1*BOB+1*SFP)	<b>UNI</b>	2*XGE(optical) + 2*XGE(electrical) + 24*GE, supports PoE++
<b>PoE output power</b>	Maximum output power of a PoE++ port: 60 W Maximum total output power: 840 W	<b>Surge protection specifications</b>	GE: common mode 6 kV; differential mode 1.5 kV. AC power: common mode 6 kV; differential mode 6 kV.
<b>Operating temperature</b>	-40°C to +55°C	<b>Operating humidity</b>	5%RH to 95%RH (non-condensing)

<b>Power Rating</b>	100–240 V AC, 50 Hz/60 Hz, 10 A	<b>Power Supply</b>	1000W
<b>Static power consumption</b>	54 W	<b>Maximum power consumption</b>	981 W
<b>Dimensions (WxDxH)</b>	442mm×240mm×43.6mm (Without Mounting Brackets) 482mm×240mm×43.6mm (With Mounting Brackets)	<b>Weight</b>	About 4.3 kg
<b>Heat dissipation mode</b>	Fans heat dissipation	<b>Installation mode</b>	Support 19-inch cabinet, rack, or network box installation

## Port Parameters

XGS-PON	GE/XGE(electrical)	XGE(optical)
<ul style="list-style-type: none"> <li>XGS-PON optical module, port type: SC/UPC</li> <li>Complies with the G.9807.1 protocol.</li> <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>	<ul style="list-style-type: none"> <li>PoE++</li> <li>Port type: RJ-45</li> <li>GE port: Auto ports speed(10/100/1000 Mbit/s)</li> <li>XGE(electrical): Auto ports speed(1/2.5/5/10 Gbit/s)</li> <li>Auto-MDI/MDIX</li> <li>Configuration of the number of MAC addresses learned</li> <li>VLAN filtering</li> </ul>	<ul style="list-style-type: none"> <li>Supports GE and XGE optical modules.</li> <li>Supports rates of 1000 Mbit/s and 10000 Mbit/s.</li> </ul> <p><b>NOTE</b> The default rate of an XGE (optical) port is 1000 Mbit/s. To change the rate to 10000 Mbit/s, run the <b>ont port attribute portid ontid eth ont-portid speed</b> command on the OLT to change the interface rate after the ONU goes online.</p>

## Function List


Automatic Service Provisioning	Smart O&M	Networking Protection	Security
<ul style="list-style-type: none"> <li>Authentication exemption</li> <li>XML/OMCI</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</li> <li>PPPoE/DHCP simulation testing</li> </ul>	<ul style="list-style-type: none"> <li>Type B Protection</li> <li>Type C Protection</li> <li>PON upstream load sharing</li> </ul>	<ul style="list-style-type: none"> <li>802.1x</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	Forwarding rate
<ul style="list-style-type: none"> <li>IGMP v2/v3 snooping</li> <li>IGMP proxy</li> <li>MLDv1/MLDv2 snooping</li> <li>Dynamic controllable multicast</li> <li>Uncontrollable multicast</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>PPPoE PITP</li> <li>BPDU transparent transmission</li> <li>LLDP/LLDP-MED</li> <li>IPv6 (Layer 2 transparent</li> </ul>	<ul style="list-style-type: none"> <li>Switching rate: 180 Gbit/s</li> <li>Packet forwarding rate: 125 Mpps</li> </ul>

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