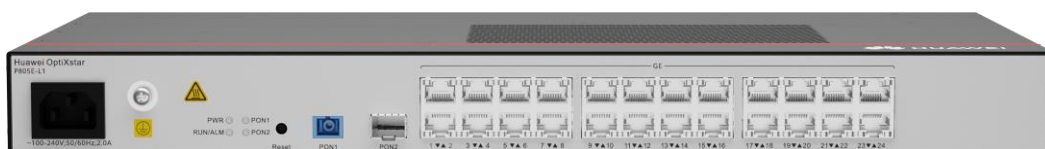


# Huawei OptiXstar P805E-L1 Datasheet

Date: 2023-08-30

## Product Overview

Huawei OptiXstar P805E-L1 is a rack-mounted ONU. It provides 2 XGS-PON upstream ports on the network side and 24 GE ports on the user side. It is suitable for carrying data and video services in high-density campus scenarios and brings high-quality service experience to users.



## Product Highlights

- Features high reliability, two XGS-PON upstream ports, supporting type C networking protection.
- PON upstream load sharing, supporting 20 Gbit/s upstream transmission.
- 24 GE ports, supporting high-density access.
- Supports wide temperature range with strong environment adaptability.
- 802.1x authentication ensure device access security.
- Centralized management on eSight.

## Technical Specifications

<b>NNI</b>	2*XGS-PON(1*BOB+1*SFP)	<b>UNI</b>	24*GE
<b>Operating temperature</b>	-25°C to +55°C	<b>Installation mode</b>	Support 19-inch cabinet, rack, or network box installation
<b>Operating humidity</b>	5%RH to 95%RH (non-condensing)	<b>Surge protection specifications</b>	GE: common mode 6 kV; differential mode 0.5 kV.  AC power: common mode 6 kV; differential mode 6 kV.
<b>Heat dissipation mode</b>	Natural heat dissipation	<b>Rated operating voltage range</b>	100–240 V AC, 50 Hz/60 Hz, 2A
<b>Static power</b>	22 W	<b>Maximum power</b>	38 W

<b>consumption</b>		<b>consumption</b>	
<b>Dimensions (WxDxH)</b>	442mm×220mm×43.6mm (Without Mounting Brackets) 482mm×220mm×43.6mm (With Mounting Brackets)	<b>Weight</b>	About 3.1 kg

## Port Parameters

<b>XGS-GPON</b>	<b>GE</b>
<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>Port type: RJ-45</li> <li>Auto ports speed(10/100/1000 Mbit/s)</li> <li>Half-duplex/full-duplex mode negotiation and configuration</li> <li>Auto-MDI/MDIX</li> <li>Configuration of the number of MAC addresses learned</li> <li>VLAN filtering</li> </ul>

## Function List


<b>Automatic Service Provisioning</b>	<b>Smart O&amp;M</b>	<b>Networking Protection</b>	<b>Security</b>
<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 single-homing protection</li> <li>Type B dual-homing protection</li> <li>Type C single-homing protection</li> <li>Type C dual-homing protection</li> <li>PON upstream load sharing</li> </ul>	<ul style="list-style-type: none"> <li>802.1x authentication, MAC address authentication, and MAB authentication</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>
<b>Multicast</b>	<b>QoS</b>	<b>Layer 2 Management</b>	
<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>PITP</li> <li>BPDU transparent transmission</li> <li>LLDP/LLDP-MED</li> <li>IPv6 (Layer 2 transparent transmission)</li> </ul>	

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