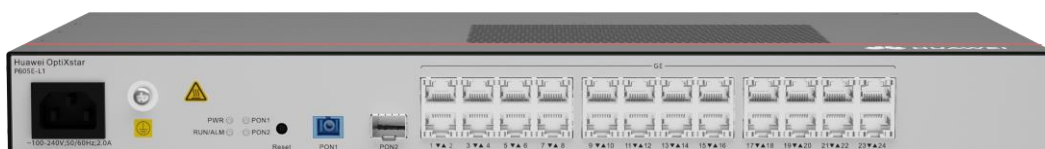# Huawei OptiXstar P605E-L1 Datasheet

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Product Overview

Huawei OptiXstar P605E-L1 is a rack-mounted ONU. It provides two GPON 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 GPON upstream ports, supporting type C networking protection.
- 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

NNI	2*GPON(1*BOB+1*SFP)	UNI	24*GE
Operating temperature	-25℃ to +55℃	Rated operating voltage range	100–240 V AC, 50 Hz/60 Hz, 2A
Operating humidity	5%RH to 95%RH (non-condensing)	Installation mode	Support 19-inch cabinet, rack, or network box installation
Static power consumption	22 W	Maximum power consumption	36 W
Dimensions (WxDxH)	442mm×220mm×43.6mm (Without Mounting Brackets) 482mm×220mm×43.6mm (With Mounting Brackets)	Surge protection specifications	GE: common mode 6 kV; differential mode 0.5 kV. AC power: common mode 6 kV; differential mode 6 kV.

Heat dissipation mode	Natural heat dissipation	Weight	About 3.1 kg

Port Parameters

GPON	GE/XGE(electrical)
• Port type: SC/UPC • Complying with ITU-T G.984.2, Class B+ • Transmission rate: upstream 1.244 Gbit/s, downstream 2.488 Gbit/s • Receiver sensitivity: -27dBm~-29dBm • Overload optical power: -8dBm	• Port type: RJ-45 • Auto ports speed(10/100/1000 Mbit/s) • Half-duplex/full-duplex mode negotiation and configuration • Auto-MDI/MDIX • Configuration of the number of MAC addresses learned • VLAN filtering

Function List

Automatic Service Provisioning	Smart O&M	Networking Protection	Security
• Authentication exemption • XML/OMCI	• XML/Web UI • Rogue ONT detection and self-regulation • Ring network detection • PPPoE/DHCP simulation testing	• Type B Protection • Type C Protection • PON upstream load sharing	• 802.1x • DoS/ARP anti-attacks • Static MAC address binding • Device access control • Web session number restriction
Multicast	**QoS**	**Layer 2 Management**	
• IGMP v2/v3 snooping • IGMP proxy • MLDv1/MLDv2 snooping • Dynamic controllable multicast • Uncontrollable multicast	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR	• DHCP Option82 • PITP • BPDU transparent transmission • LLDP/LLDP-MED • IPv6 (Layer 2 transparent transmission)	

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