

Huawei OptiXstar P815E-L1 Datasheet

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Product Overview

Huawei OptiXstar P815E-L1 is a rack-mounted PoE ONU. It provides two XGS-PON upstream ports on the network side and 24 GE (PoE+) ports on the user side. It is suitable for carrying data, video and Wi-Fi 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.
- The PoE function provides remote power supply for access APs and cameras.
- Supports wide temperature range with strong environment adaptability.
- 802.1x authentication ensure device access security.
- Centralized management on eSight.

Technical Specifications

NNI	2*XGS-PON(1*BOB+1*SFP)	UNI	24*GE, supports PoE+
PoE output power	Maximum output power of a PoE+ port: 30 W Maximum total output power: 370 W	Surge protection specifications	GE: common mode 6 kV; differential mode 0.5 kV. AC power: common mode 6 kV; differential mode 6 kV.
Operating temperature	-25°C to +55°C	Installation mode	Support 19-inch cabinet, rack, or network box installation

Operating humidity	5%RH to 95%RH (non-condensing)	Rated operating voltage range	100–240 V AC, 50 Hz/60 Hz, 6A
Static power consumption	36 W	Maximum power consumption	454 W
Dimensions (WxDxH)	442mm×220mm×43.6mm (Without Mounting Brackets) 482mm×220mm×43.6mm (With Mounting Brackets)	Weight	About 3.1 kg
Heat dissipation mode	Fans heat dissipation	-	-

Port Parameters

XGS-GPON	GE
<ul style="list-style-type: none"> • XGS-PON optical module, port type: SC/UPC • Complies with the G.9807.1 protocol. • Class N1/N2 • Receiver sensitivity: -28dBm • Overload optical power: -9dBm • Transmission rate: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s 	<ul style="list-style-type: none"> • PoE+ • 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
<ul style="list-style-type: none"> • Authentication exemption • XML/OMCI 	<ul style="list-style-type: none"> • XML/Web UI • Rogue ONT detection and self-regulation • Ring network detection • PPPoE/DHCP simulation testing 	<ul style="list-style-type: none"> • Type B Protection • Type C Protection • PON upstream load sharing 	<ul style="list-style-type: none"> • 802.1x • DoS/ARP anti-attacks • Static MAC address binding • Device access control • Web session number restriction
Multicast	QoS	Layer 2 Management	
<ul style="list-style-type: none"> • IGMP v2/v3 snooping • IGMP proxy • MLDv1/MLDv2 snooping • Dynamic controllable multicast • Uncontrollable multicast 	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR 	<ul style="list-style-type: none"> • DHCP Option82 • PITP • BPDU transparent transmission • LLDP/LLDP-MED • IPv6 (Layer 2 transparent transmission) 	

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