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

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

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

Port Parameters

XGS-PON	GE/XGE(electrical)	XGE(optical)
• 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	• PoE++ • Port type: RJ-45 • GE port: Auto ports speed(10/100/1000 Mbit/s) • XGE(electrical): Auto ports speed(1/2.5/5/10 Gbit/s) • Auto-MDI/MDIX • Configuration of the number of MAC addresses learned • VLAN filtering	• Supports GE and XGE optical modules. • Supports rates of 1000 Mbit/s and 10000 Mbit/s. **NOTE** The default rate of an XGE (optical) port is 1000 Mbit/s. To change the rate to 10000 Mbit/s, run the **ont port attribute** *portid ontid* **eth** *ont-portid* **speed** command on the OLT to change the interface rate after the ONU goes online.

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**	**Forwarding rate**
• 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 • PPPoE PITP • BPDU transparent transmission • LLDP/LLDP-MED • IPv6 (Layer 2 transparent	• Switching rate: 180 Gbit/s • Packet forwarding rate: 125 Mpps

		transmission)	

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