

Huawei OptiXstar P813E-E Datasheet

Enterprise-Level Routing Gateway ONU

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Product Overview

The OptiXstar P813E-E is an ONU designed for scenarios such as enterprise campus and video backhaul. It provides 8 GE ports with PoE/PoE+ to provide high-quality voice, data, and HD video services.



Product Highlights

- 802.1x and IPv6/IPv4 firewalls ensure device access security and network security.
- Supports XGS-PON uplink access.
- Supports -40°C to $+55^{\circ}\text{C}$ wide temperature range with strong environment adaptability.
- The PoE/PoE+ function supports flexible power supply.
- Features high reliability, and supports type B and type C service protection.
- Centralized management on eSight.
- Multi-network convergence, supporting ONU port-level hard-isolated. Different ports of an ONU can be securely connected to multiple networks through the hard-isolated technology.

Technical Specifications

Dimensions (WxDxH)	220mm x 150mm x 35mm (Without floor mat)	UNI	8*GE(PoE/PoE+) GE1 can be used as an upstream port.
Operating temperature	-40°C to $+55^{\circ}\text{C}$	NNI	2*XGS-PON (1*BOB+1*SFP)
Operating humidity	5%RH to 95%RH (non-condensing)	Maximum PoE output power	Gross power 120W (up to 30W for one GE port)

Power adapter input	100V to 240V AC, 50/60Hz	Surge protection specifications	GE: common mode 6 kV; differential mode 1.5 kV. AC power: common mode 6 kV; differential mode 6 kV.
System power supply	56V DC, 2.6A	Installation mode	Can be placed horizontally on a desk, installed under a desk, mounted on a wall, or installed in a cabinet or network box.
Static power consumption	10 W	Maximum power consumption	14 W (POE port without PD) 138 W (POE port with PD having the maximum power consumption)
Weight	About 1.2kg	-	-

Port Parameters

XGS-PON	GE
<ul style="list-style-type: none"> XGS-PON optical module, port type: SC/UPC XGS-PON; <ul style="list-style-type: none"> Class N1/N2 Receiver sensitivity: -28dBm Overload optical power: -9dBm Transmission rate: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s Type B single-homing Type B dual-homing (supported in Layer 2 forwarding) Type C protection 	<ul style="list-style-type: none"> PoE and PoE+, complying with IEEE 802.3af and IEEE 802.3at Port type: RJ-45 Auto ports speed (10/100/1000 Mbit/s) Auto-MDI/MDIX Configuration of the number of MAC addresses learned VLAN transparent transmission/VLAN filtering

Function List

Automatic Service Provisioning	Smart O&M	Layer 3 Features	Security
<ul style="list-style-type: none"> Authentication exemption XML/OMCI/TR069 	<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"> Default/Static/Policy/Service routes VLAN binding ALG/UPnP/ARP DDNS/DMZ/DNS/NAPT PPPoE/Static IP/DHCP Port mapping/Port trigger IPv6 	<ul style="list-style-type: none"> 802.1x IPv6/IPv4 firewalls Filtering based on MAC/IP/URL DoS/ARP anti-attacks Static MAC address binding Device access control Web session number restriction ONU Port-Level Hard-Isolated (V500R022C00 and later versions)
Multicast	QoS	Layer 2 Management	
<ul style="list-style-type: none"> IGMP v2/v3 snooping Dynamic controllable multicast IGMP proxy MLDv1/MLDv2 	<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 	

snooping			
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Specifications of a 150 W Power Adapter

NOTE


This power adapter is delivered with the device.

Specification Name	Power adapter
Appearance	
Dimensions	198 mm (L) x 100 mm (W) x 43 mm (H)
Power parameters	Input voltage: 100–240 V AC, 50 Hz/60 Hz Rated output voltage/current: 56 V DC/2.679 A Output connector type: DC straight connector 5.5 mm x 2.1 mm x 10 mm
Power	150 W
Weight	About 0.81 kg
Installation mode	Desktop
Operating temperature	–40°C to +55°C
Power cable	Wire gauge: 2468 20AWG Cable length: 1.5 m

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