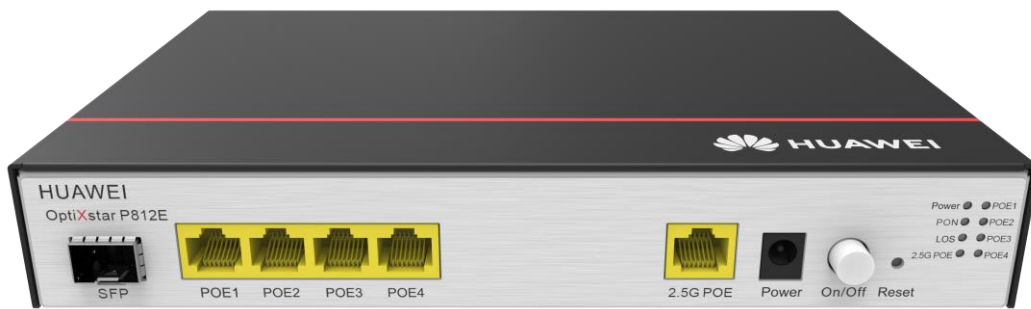# OptiXstar P812E Datasheet

Enterprise-Level Routing Gateway ONU   Date: 2020-01-03

Product Overview

The OptiXstar P812E is an ONU designed for scenarios such as enterprise campus and video backhaul. It provides 4 GE ports and 1 2.5GE port 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, 2.5G high bandwidth access.
- The PoE/PoE+ function supports flexible power supply.
- Features high reliability,type B dual-homing service protection.

Technical Specifications

Dimensions (WxDxH)	220mm x 150mm x 35mm(Without floor mat)	UNI	4*GE+1*2.5GE
			NOTE Both the GE and 2.5GE ports support PoE/PoE+.
Weight	About 1030 g	**Static powerconsumption**	8.5 W
Operating temperature	-5°C to +45°C	**Maximum power**	12 W (POE port without PD) 78 W (POE port with PD having the maximum

		consumption	power consumption)
Operating humidity	5%RH to 95%RH (non-condensing)	**Maximum PoE output power**	Gross power 60W (up to 30W for one GE port)
Power adapter input	100V to 240V AC, 50/60Hz	**Surge protection specifications**	GE: common mode 4 kV; differential mode 0.5 kV. AC power: common mode 6 kV; differential mode 6 kV
System power supply	56V DC,1.42A	**Installation mode**	Support indoor desktop installation, wall mounting, or network box installation.
NNI	XGS-PON	-	-

Port Parameters

SFP	**GE/2.5GE**
• XGS-PON optical module, port type: SC/UPC • XGS-PON; 　– 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)	• PoE and PoE+, complying with IEEE 802.3af and IEEE 802.3at • Port type:RJ-45 • GE ports: Auto ports speed(10/100/1000 Mbit/s) • 2.5GE ports: Auto ports speed(1000/2500 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**
• Authentication exemption • XML/OMCI/TR069	• XML/Web UI • Rogue ONT detection and self-regulation • Ring network detection/PPPoE/DHCP simulation testing	• Default/Static/Policy/Service routes • VLAN binding • ALG/UPnP/ARP • DDNS/DMZ/DNS/NAPT • PPPoE/Static IP/DHCP • Port mapping/Port trigger • IPv6	• 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
Multicast	**QoS**	**Layer 2 Management**	
• IGMP v2/v3 snooping • Dynamic controllable multicast • IGMP proxy • MLDv1/ML	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR	• DHCP Option82 • PITP • BPDU transparent transmission • LLDP/LLDP-MED	

Dv2 snooping			

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