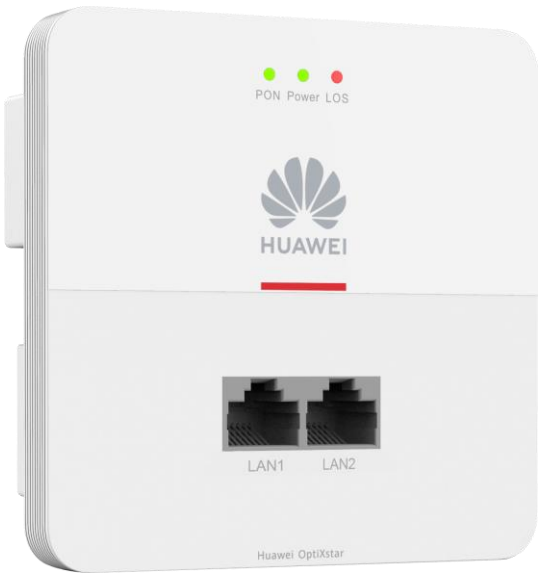
Huawei OptiXstar P871E Datasheet

Enterprise-Level Routing Gateway ONU

Product Overview

Huawei OptiXstar P871E is a panel ONU for enterprise campuses. They can be quickly installed on the 86-type electric box. Provides one XGS-PON port in the upstream direction and two GE Ethernet ports on the user side. The high-performance forwarding capability effectively ensures data and HD video service experience, providing an ideal solution for enterprise campus deployment and future-oriented service support.

- Compact design, plug-and-play, flexible and easy to install
- 802.1x and IPv6/IPv4 firewalls ensure device access security and network security.
- High reliability, supporting type B dual-homing service protection
- 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



NOTE

The schematic diagrams in this document may differ from the actual product.

Technical Specifications

Dimensions (H x	Panel: 86 mm x 86 mm x 9.5 mm	**Weight**	168 g

W x D)	Internal module depth: 35 mm		
Power supply of the entire system	100–240 V AC, 50/60 Hz	**Interface**	• Network side: 1*XGS-PON • User side: 2*GE
Static power consumption	4.7 W	**Maximum power consumption**	7.2 W
Optical fiber interface	SC/UPC, XGS-PON upstream transmission	**Button**	Reset button and indicator switch
Storage	128 MB FLASH, 512 MB DRAM	**Installation mode**	Indoor 86-box installation
Operating ambient temperature	-5°C - 40°C	**Operating ambient humidity**	5% RH to 95% RH, non-condensing
Protection rating	IP20	**Surge Protection Specifications**	• GE: 4 kV in common mode and 0.5 kV in differential mode • AC power supply: 6 kV in common mode and 4 kV in differential mode

Port Parameters

XGS-PON port	GE port
• Interface type: SC/UPC • Transmission rate: Downstream: 9.953 Gbit/s; Upstream: 9.953 Gbit/s • Receiver sensitivity: -28 dBm • Overload optical power: -9 dBm **NOTICE** If the optical power is greater than the overload optical power, the device may be damaged. In this case, connect an optical attenuator.	• Interface type: RJ-45 • 10/100/1000 Mbit/s interface rate auto-sensing • Half-duplex/full-duplex mode negotiation and configuration • MDI/MDIX automatic configuration • Configuring the Number of Learned MAC Addresses • Ethernet port-based VLAN transparent transmission and filtering

Function List

Automatic Service Provisioning	Smart O&M	Multicast
• Authentication exemption • XML/OMCI/TR069	• Variable-length OMCI messages • Rogue ONT detection and self-regulation • Ring network detection/PPPoE/DHCP simulation testing	• IGMP v2/v3 snooping • MLDv1/MLDv2 snooping • Quickly leave • Downstream multicast VLAN translation/transparent transmission/stripping • IGMP/MLD packet rate limitation
QoS	**Common O&M**	**Security**
• Ethernet port rate limitation	• OMCI/Web UI	• MAC filtering • ONU Port-Level Hard-

• 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on VLAN, 802.1p, Ethernet port, or any combination of VLAN, 802.1p, and Ethernet port	• Software dual backup and rollback • Optical link measurement and diagnosis • Loop detection	Isolated(V500R022C00 and later version) **Power saving** • Indicator power saving • Power consumption reduction of idle components in power-saving state

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