Huawei OptiXstar P670E Series Datasheet

Enterprise-Level Routing Gateway ONU   Date: 2020-12-10

Product Overview

Huawei OptiXstar P670E series products are panel-type ONUs which can be easily installed in 86-type electrician boxes in enterprise campus scenarios. They provide one GPON port in the upstream direction, and provide one GE Ethernet port and POTS port on the user side. With excellent forwarding capabilities, the ONUs can ensure user experience in voice, data, and HD video services, providing ideal solutions and future-oriented service support capabilities for enterprise campuses.

The P670E series products include the P670E (AC power supply) and P670E-H (photoelectric composite cable). A photoelectric composite cable provides fibers for high-bandwidth connections and copper wires for power supply to remote optical devices.

Product Highlights

- Compact design, plug-and-play, flexible and easy to install
- Power supply over photoelectric composite cables (POF)
- 802.1x and IPv6/IPv4 firewalls to ensure device access security and network security
- High reliability with type B dual-homing service protection.

Technical Specifications

Dimensions	Panel: 86 mm x 86 mm x 9.5 mm Internal module depth: 35 mm	**UNI**	GPON
Weight	About 150 g	**NNI**	1GE+1POTS
Operating temperature	-5°C to +40°C	**Surge protection specifications**	GE: common mode 2.5 kV; POTS:common mode 2.5 kV. AC power: common mode 6 kV; differential mode 4 kV.
Operating humidity	5%RH to 95%RH (non-condensing)	**Static power consumption**	P670E:2.5W P670E-H:3W
Power adapter input	- AC input: 100–240 V AC, 50/60 Hz - POF power input: 48–56 V DC **NOTE** The copper wires in a photoelectric composite cable transmit power in PoE mode and do not transmit data.	**Maximum power consumption**	P670E:5.8W P670E-H:6.5W
		Installation mode	Indoor 86-box installation

Port Parameters

GPON	GE	POTS
- Port type: SC/UPC - Complying with ITU-T G.984.2, Class B+ - Receiver sensitivity: -27dBm ~ -29dBm; - Overload optical power: -8dBm; - Transmission rate: upstream 1.244 Gbit/s, downstream 2.488 Gbit/s - Type B single-homing - Type B dual-homing (supported in Layer 2 forwarding)	- 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	- Maximum REN: 4 - G.711A/μ, G.729a/b, and G.722 encoding/decoding - T.30/T.38/G.711 fax mode - DTMF - Emergency calls (with the SIP protocol)

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 • 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	• OMCI/Web UI • Software dual backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis • Loop detection	• MAC filtering
		Power saving
		• Indicator power saving • Power consumption reduction of idle components in power-saving state