SPO-GS8808E

Standalone GPON OLT

Overview

Sopto presents the industry's leading GPON solution of SPO-GS8808E, which complies with the relevant standards of ITU G.984.x and FSAN. SPO-GS8808E is 1U Rack mount equipment, 8pon ports, 8 GE uplink optic ports, 8 GE uplink electric ports. The maximum optical coupling ratio of 1:128, up to 1024 GPON ONTs. The down link band width is 2.5Gbps and uplink bandwidth is 1.25Gbps. The product is in compact design and convenient for flexible using, easy to deploy with high performance. It can meet the requirements of equipment performance and compact volume of the room environment. It can also satisfy the requirements of the access network and enterprise network that enhancing the network function, improving the reliability and reducing power consumption. The product is suitable for the "triple play" service, the resident of optical access network, video surveillance network, enterprise network and the Internet of the network applications.

Features

- Comply with ITU-T G.984/G.988 standards and China's Telecom industry GPON standards

- Support OMCI remote management of ONT/ONU, compatible with ITU-984.4 OMCI protocol

- Standalone 1U 8PON compact design of OLT products

  SPO-GS8808E provides 8 GPON ports, 8 uplink GE optical ports + 8 uplink GE electric ports, 10 Gigabit card expansion slot provides 2*10Gigabit SFP+ uplink port. Each PON port supports 128 ONT, total 1024 ONT for one chassis. Support dual power supply redundancy, 220VAC and -48VDC mixed.

- SFU, HGU series ONT products, Meet the needs of the different scenarios of networking

- The complete layer 2 switching function

OLT is with powerful layer 2 switching capacity and complete layer 2 protocol. Supporting with the exchange, isolation and One By One working mode. Supporting port aggregation, VLAN, port speed, queue techno

logy, flow control technology and ACL rich two layer function. Offering the technical support for the development of the multi-service fusion.

- The QOS security

GPON products is with complete DBA function and excellent ability of QoS service. DBA provides a variety of QoS for the GPON system by means of four types of bandwidth and five types of T-CONT. It can meet different business flow of time delay, jitter and packet loss rate of different QoS requirements.

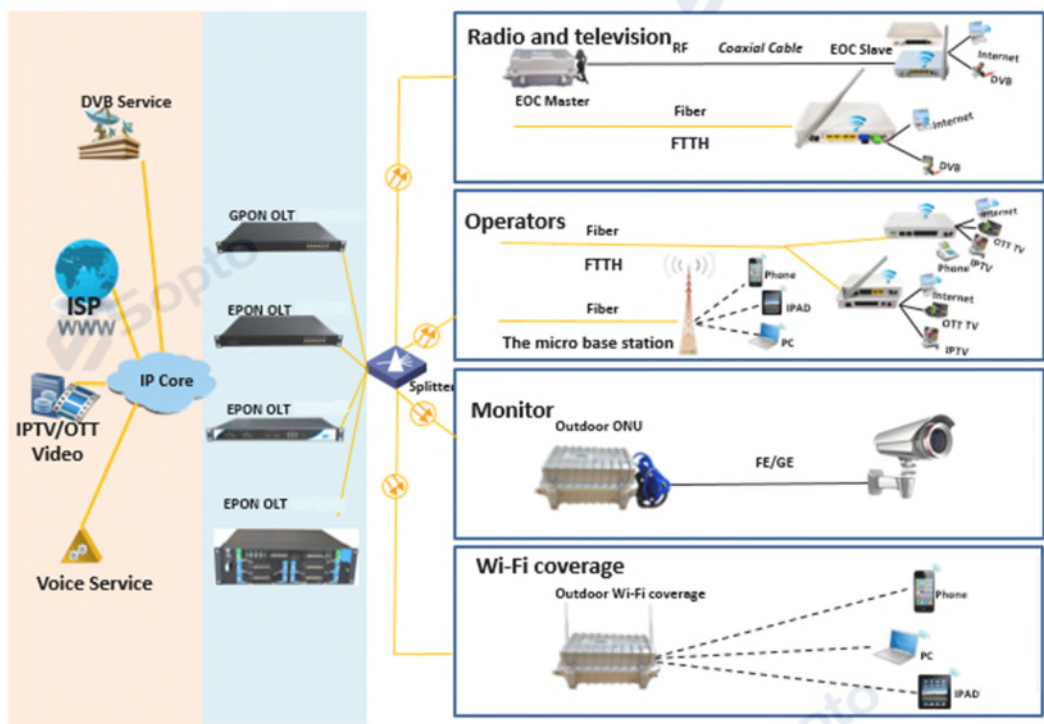- Easy-to-use management system

Support CLI and SNMP management. Complying with OMCI standard. Realizing the business management through OMCI channel protocol, including the ONT function parameters, type and number of T-CONT business, QoS parameter, configuration request information and performance statistics, automatic notification running event system, the realization of OLT on ONT configuration, fault diagnosis, performance and security management.

Specification

Item		SPO-GS8808E
Chassis	Rack	1U 19 inch standard box
	Slots	1*10 Gigabit uplink card slot
		2 power module slot
Uplink Port	Copper	8*10/100/1000M auto-negotiable
	SFP	8 SFP slots（1000BASE-TX interface）
	10GE card	2 SFP (optional)
PON Port	QTY	8
	Physical Interface	SFP Slots
	Connector Type	ITU-TG.984.2Class B+
	Max splitting ratio	1:128
Management Ports		1 10BASE-TX out band port 1 CONSOLE port
PON Port Specification		Transmission Distance :20KM, PON port speed: Downstream Data Rate: 2.5Gbps, Upstream Data Rate: 1.25Gbps, Wavelength: 1490nm TX,1310nm RX, Connector: SC,
		Fiber Type: 9/125μm SMF, TX Power: +1.5～+5dBm,
		Rx Sensitivity: -28dBm, Saturation Optical Power: -8dBm
Management Mode		SNMP, Telnet, CLI

Management Function		Support for state monitoring, configuration management, equipment log, equipment upgrades, equipment management, user management.Layer-2 switch configuration such as Vlan, Trunk, RSTP, IGMP, QOS, etc. PON management function: DBA ,ONT authorization, ACL, QOS, etc. Online ONT configuration and management. User management. Alarm management
Dimension		440mm(L)*391mm(W)*44mm(H)
Weight		4kg
Power Supply	220VAC	AC: 90V～240V，47/63Hz
	-48DC	DC:-36V～-72V
Power Consumption		65W
Operating Environment	Working Temperature	0～50℃
	Storage Temperature	-40～85℃
	Relative Humidity	5～90%(non-condensing)

Network Application

Ordering information

Product	Model	QTY	Unit	Configuration	Notes
GPON OLT	SPO-GS8808E	1	Set	8PON GPON OLT 1U chassis, 8 GE uplink optic ports, 8 GE uplink electric ports, 220VAC or -48VDC plug-in power modules, supports dual power configuration	without SFP modules, without 10Gbit uplink card
Ethernet SFP	SPT-P131G-20D	1～8	PC	Optical Transceiver 1.25G SFP 1310nm SM 20KM DDM	When select the optical ports as uplink, it would be taken into consideration.
OLT SFP	SPT-GT4321-SB2BD	1～8	PC	GPON OLT SFP ITU-TG.984.2 Class B+	The recommended configuration is 2pcs; at least 1pc ;2 pcs at most.
10Gb uplink card	SPO-GS8808E-UC	1	PC	2*10Gb uplink interface, can be installed in the SPO-GS8808E frame	Optional 10Gbit uplink port
Gigabit Ethernet SFP	SPT-P13TG-20D	1～2	PC	Optical Transceiver 10G SFP+ 1310nm SM 20KM DDM	When select the 10Gb uplink card as uplink, it would be taken into consideration.

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