SPO-ES8444 SERIES

1U 8PON EPON OLT

Overview

SPO-ES8444 series products   is 1U high 19 inch rack mount product. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to deploy in an compact room environment.

The OLT can use for "Triple-Play", CPN, IP Camera, Enterprise LAN and IOT applications. It is a high performance products.

SPO-ES8444 series provides 1 USB interface, 4GE(copper) and 4GE optical interface, 4*10Gb uplink interface, and 8 EPON ports for downstream. It can support 512 ONU under 1:64 splitter ratio
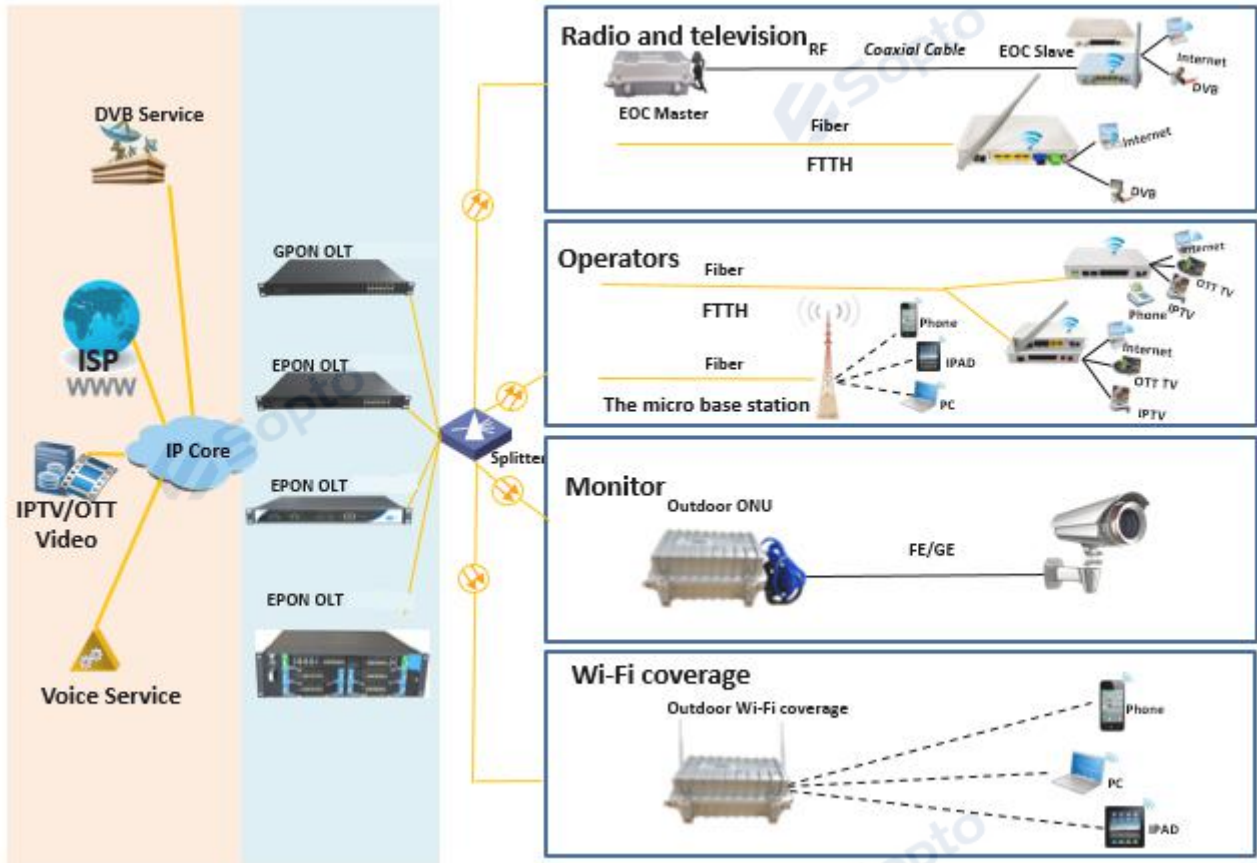
Specifications

Item		SPO-ES8444
Chassis	Rack	1U 19 inch standard box
Uplink Port	QTY	12
	Copper	10/100/1000M auto-negotiable,RJ45:4pcs
	Optical interface	4 GE
	10Gb uplink interface	4*10Gb
PON Port	QTY	8
	Physical Interface	SFP Slots
	Connector Type	1000BASE-PX20+
	Max splitting ratio	1:64
USB Port	QTY	1
	Connector Type	Type-C
Management Ports		1*100BASE‐TX outband port; 1 CONSOLE port

PON Port Specification (Apply to C-Data PON module)	Transmission Distance	20KM
	PON port speed	Symmetrical 1.25Gbps
	Wavelength	1490nm TX,1310nm RX
	Connector	SC/PC
	Fiber Type	9/125μm SMF
	TX Power	+2.5 ~ +7dBm
	Rx Sensitivity	-27dBm
	Saturation Optical	-6dBm
10Gb SFP+ Port Specification (Apply to C-Data 10Gb module)	Transmission Distance	10KM
	PON port speed	8.5-10.51875Gbps
	Wavelength	1310nmTX , 1310nmRX
	Connector	LC
	Fiber Type	Single mode with dual fiber
	TX Power	-8.2~+0.5 dBm
	Rx Sensitivity	-12.6dBm
Management Mode		SNMP, Telnet, CLI management mode.
Management Function		Fan Group Detecting Port Status monitoring and configuration management; Layer-2 switch configuration such as VLAN, Trunk ,RSTP,IGMP ,QOS, etc; EPON management function: DBA ,ONU authorization, ACL ,QOS ,etc; Online ONU configuration and management User management Alarm management
Layer-two Switch		Support port VLAN and protocol VLAN Support VLAN tag/Untag ,VLAN transparent transmission; Support 4096 VLAN Support 802.3dd trunk RSTP QOS based on port ,VID,TOS and MAC address IGMP Snooping 802.x flow control Port stability statistic and monitoring

EPON Function	Support port-based rate limitation and bandwidth control; In compliant with IEEE802.3ah Standard Up to 20KM transmission Distance Support data encryption, group broadcasting, port VLAN separation, RSTP, etc. Support Dynamic Bandwidth Allocation (DBA) Support ONU auto-discovery/Link detection/remote upgrade of software; Support VLAN division and user separation to avoid broadcast storm; Support various LLID configuration and single LLID configuration .Different user and different service could provide different QOS by means of different LLID channels. Support power-off alarm function ,easy for link problem detection Support broadcasting storm resistance function Support port isolation between different ports Support ACL and SNMP to configure data packet filter flexibly Specialized design for system breakdown prevention to maintain stable system Support dynamic distance calculation on EMS online Support RSTP,IGMP Proxy
Layer-three Route	Support static unicast Support static multicast Support RIP routing protocol Support dynamic multicast protocol with active source
Backplane Bandwidth	112G
Dimension	440*300*44(mm*mm*mm)
Weight	5.5kg
Power Supply	220VAC	AC: 100V ~ 240V , 47/63Hz
	-48DC	DC:-36V ~ -72V
Power Consumption	58W
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
1U EPON OLT	SPO-ES8444-2A	1	Set	OLT 1U Standalone EPON 8 PON Ports + 4 GE uplink optic ports(SFP)/4 GE uplink UTP ports + 4 10GE uplink optic ports(SFP+) Commercial Temperature , Dual 220V AC Power supply	without SFP modules
Uplink SFP	SPT-P131G-20D	1～4	PC	Optional; A demonstration configuration is 20KM dual fiber . Optical Transceiver 1.25G SFP 1310nm SM 20KM DDM	When select the optical ports as uplink, it would be taken into consideration.

OLT PON SFP	SPT-ET4311-SE2AD	1～8	PC	Optical Transceiver EPON OLT SFP 1490nm(Tx)/1310nm(Rx),1244M(Tx)/1244M(Rx),SC,SM, PX20+ DDM	The recommended configuration is 8pcs; at least 1pc ;8 pcs at most. PX20+:
	SPT-ET4311-SE2CD	-	PC	Optical Transceiver EPON OLT SFP 1490nm(Tx)/1310nm(Rx),1244M(Tx)/1244M(Rx),SC,SM, PX20++ DDM	PX20++
Gigabit Ethernet SFP	SPT-P13TG-LR	4	PC	Optical Transceiver 10G SFP+ 1310nm SM 20KM DDM	When select the 10Gb uplink ports, it would be taken into consideration.

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