SUPREME

XPON SUX1GW

1GE+Dual-Band WIFI ONU

Brief Views

SUX1GW data type ONU is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, video service based on the GPON network.

GPON is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive video communications traffic. GPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

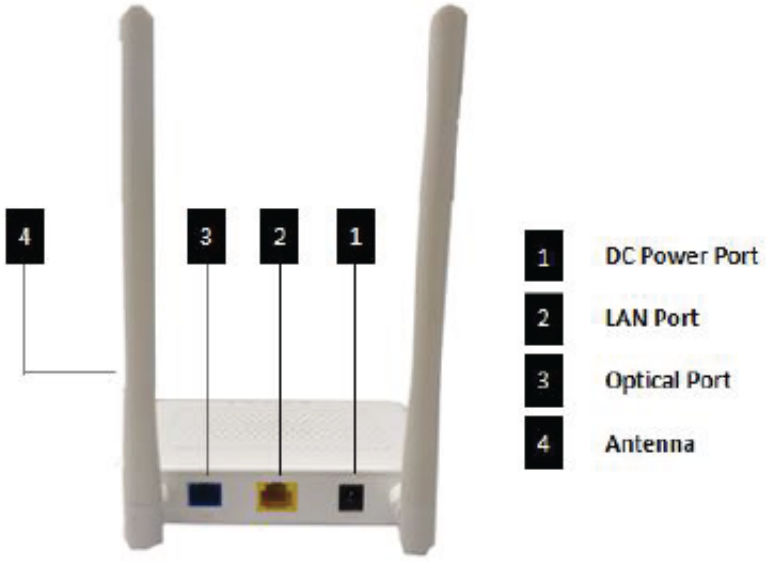
SUX1GW have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking.It fully meets the ITU-T technical standards and have good compatibility with third party OLT.

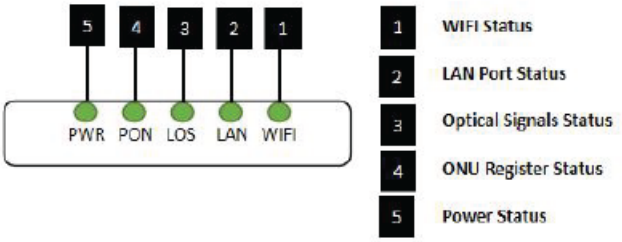
SUX1GW integrates wireless function which meets 802.11 a/b/g/n/ technical standards. At the same time, it also supports 2.4GHz/5GHz dual-band wireless signal. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

Functional Feature

- In compliant with ITU - T G.984.standard
- Meet 802.11 a/b/g/n/ WIFI technical standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support Ethernet line performance statistics function
- Support OMCI+TR069 management mode
- Support VLAN tag/untag
- Support multicast Snooping/Proxy
- Support DHCP/PPPOE/Static IP internet mode
- Support port binding
- Support loop-detection function
- Support device-based speed limitation
- Support MAC-address filter and URL access control
- Support AES encryption and decryption
- Support Dynamic Bandwidth Allocation (DBA)
- EMS network management based on SNMP ,convenient for maintenance

Product Interface and LED Definitions





Indicator			Description
1	WPS	WPS	Blinking: In the connected state, waiting for the device to access; Off: In the not connected state
2	WIFI	WIFI	Blinking： Data is being transmitted On： WIFI function Opens Off： WIFI function Close
3	LAN1-2	LAN Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
4	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
5	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT; Off: In process of registering to OLT;
6	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

Specification

Item		Parameter
Interface	EPON/GPON Interface	SC/UPC single mode single fiber GPON： FSAN G.984.2 standard, Class B+ EPON： 1000BASE-PX20+ symmetric GPON：2.488Gbps/1.244Gbps downstream/upstream EPON： 1.25Gbps downstream/upstream Wavelength: Transmit: 1310nm Receiver: 1490nm Receiving sensitivity : GPON： -28dBm EPON： -27dBm Saturated power : GPON： -8dBm EPON： -3dBm Transmitting power : GPON： 0.5～5dBm EPON:0～4dBm
	Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance

	Power Interface	12V DC Power supply
Network Management	Management Mode	OMCI, OAM, TR069, WEB, Telnet
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Physical Features	Power	<4W, 12V/0.5A power supply adapter
	Physical Specifications	Item Dimension：228mm(L) x108mm(W) x 28mm (H) Item Net Weight: about 136g
	Environmental Specifications	Operating temperature: 0 to 40° C Operating humidity: 10% to 90%(Non-condensing)

WIFI Specification

Item		Parameter
Performance parameters	Operating Mode	Router or bridge
	Technical standard	IEEE802.11b/g/n
	Frequency	2.412 ~ 2.472 GHz
	Antenna gain	5dBi
	Support rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 24, 36, 48, 54Mbps 802.11n: max rate 300Mbps
	Channel	2.4GHz Channel：1,2,3,4,5,6,7,8,9,10,11,12,13
	Modulation mode	11b：DSSS： DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5/11Mbps) 11g：OFDM:BPSK(6/9Mbps), QPSK(12/18Mbps),16QAM(24/36Mbps) Q64QAM(48/54Mbps) 11n：MIMO-OFDM:BPSK,QPSK,16QAM,64QAM
	Receive sensitivity	11Mbps:≤-90dBm 54 Mbps:≤-76dBm HT20 MCS7:≤-73dBm HT40 MCS7:≤-70dBm
	Transmit power	802.11n: 17dBm
	Encryption mode	AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK