

**Brief Views** 

SPU-GE231AW-H dual-mode ONU supports EPON and GPON two modes access. The ONU automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON or EPON adaptive access.

SPU-GE231AW-H is fiber to the home multiple service access XPON ONT. It's based on the mature, stable, high cost performance XPON technology, gigabit Ethernet switching, WDM and HFC technology. It has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee. It fully meets the ITU-T and IEEE technical standards and have good compatibility with third party OLT.

It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

SPU-GE231AW-H integrates wireless function which meets 802.11 b/g/n technical standards. It has two external high gain omnidirectional antennas, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

Features

- Single-fiber access, provides internet, CATV, WIFI multiple service
- In compliant with IEEE802.3ah and ITU T G.984 standard

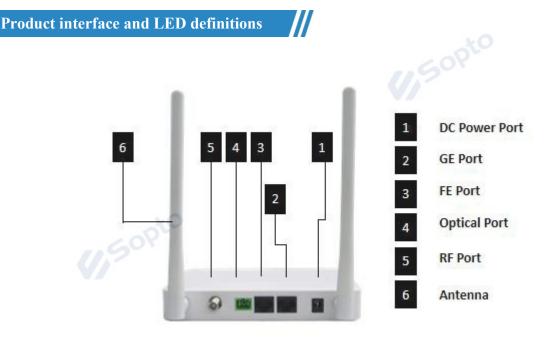
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## Shenzhen Sopto Technology Co. Limited

- Support ONU auto-discovery/Link detection/remote upgrade of software
- Meet 802.11 b/g/n technical standards
- Support VLAN transparent, tag configuration

Sopto

- Support multicast function
- Support DHCP/Static/PPPOE internet mode
- Support port-binding
- Support OAM/OMCI+TR069 remote management
- Support data encryption and decryption function
- Support Dynamic Bandwidth Allocation (DBA)
- Support MAC filter and URL access control
- Support remote CATV port management
- Support power-off alarm function ,easy for link problem detection
- Specialized design for system breakdown prevention to maintain stable system
- EMS network management based on SNMP , convenient for maintenance



		Sopto Shenzh	en Sopto Technology Co. Limited
			1 CATV Status
	7 6	5 4 3	2 1 2 WIFI Status
			3 FE Port Status
	PWR PON	LOS GE FE	WIFI CATV 4 GE Port Status
		Skalasini indokt katsavat	5 Optical Signals Status
			6 ONU Register Status
			7 Power Status
	119 I	ndicator	Description
1	I	ndicator CATV status	Description           On: CATV optical normal           Off: The CATV signals are not received
1 2			On: CATV optical normal Off: The CATV signals are not received Blinking: Data is being transmitted
	CATV	CATV status	On: CATV optical normal Off: The CATV signals are not received
2	CATV WIFI	CATV status WIFI	On: CATV optical normal Off: The CATV signals are not received Blinking: Data is being transmitted On: WIFI function Opens On: Ethernet connection is normal Blinking: Data is being transmitted through the Ethernet port

On: Success to register to OLT

Off: Failed to register to OLT;

On: The ONU is power on Off: The ONU is Power off

Blinking: In process of registering to OLT



**ONU** Register

Power status

6

7

PON

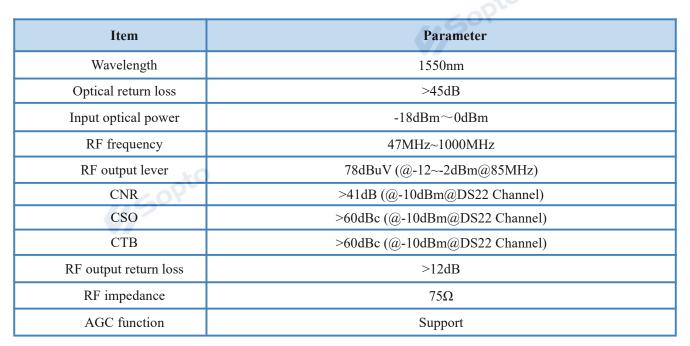
PWR

Item		Pa	rameter
Interface	EPON/GPON Interface	SC/APC single mode single fiber standard, Class B+ EPON : 1000 GPON : 2.488Gbps/1.244Gbps of 1.25Gbps downstream/upstream Wavelength: Transmit: 1310nm sensitivity : GPON : 28dBm power : GPON : -8dBm power : GPON : 0.5 ~ 5dBm	BASE-PX20+ symmetric

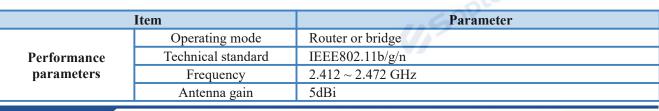
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	Sopto	Shenzhen Sopto Technology Co. Limited
	CATV Interface	1 RF output F-Type Connector
	Ethernet Interface	1*10/100/1000M and 1*10/100M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	Power Interface	12V DC Power supply
Network	Management Mode	OMCI, OAM, TR069, WEB, Telnet
Management	Management Function	Status monitor, Configuration management, Alarm management, Log management
	Power	<8.5W, 12V/1A power supply adapter
Physical Features	Physical Specifications	Item Dimension: 160mm(L)*139.5mm(W)*28.5mm(H) Item Net Weight: about 231g
	Environmental Specifications	Operating temperature: 0 to 40°C Operating humidity: 10% to 90%(Non-condensing)

## CATV



## **WIFI** Specification

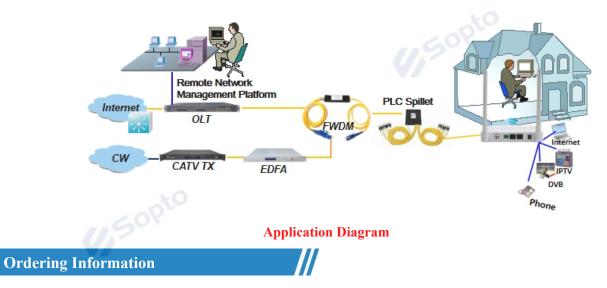


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	Sopto She	nzhen Sopto Technology Co. Limited
	Support rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 24, 36, 48, 54Mbps 802.11n: max rate 300Mbps
	Channel	2.4GHz Channel: 1,2,3,4,5,6,7,8,9,10,11,12,13
	Modulation mode	11b: DSSS: DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5/11Mbps) 11g: OFDM:BPSK(6/9Mbps), QPSK(12/18Mbps),16QAM(24/36Mbps) Q64QAM(48/54Mbps) 11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM
119	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

**Network application** 

Typical Solution: FTTH, FTTO Typical Business: INTERNET, CATV, WIFI



Product Name	Part Number	Product Description
1GE+1FE+CATV+	SPU-GE231AW-H	G/EPON ONU 1*10/100/1000M and 1*10/100M Ethernet
WIFI Single fiber		interface , 1 CATV Port, with 2.4GHz WIFI, with AGC

If you need more customized services, please contact us.

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