



SPU-GE420W-H

4GE+WIFI Dual-Mode ONU



Brief Views

SPU-GE420W-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.

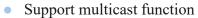
SPU-GE420W-H have a high reliability and provide quality of service guarantee, easy management, flexible expansion and networking. It's fully meet the ITU-T technical standards and have good compatibility with third party manufacturers OLT.

SPU-GE420W-H can integration wireless function with meet 802.11 n/b/g technical standards, It has external high gain directional antenna, 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

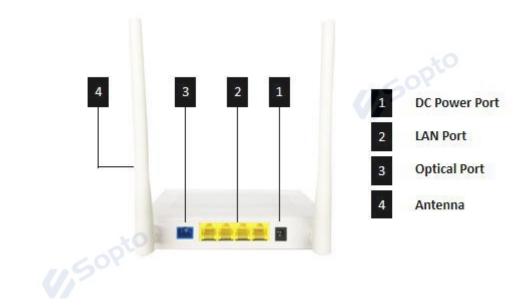
- In compliant with IEEE802.3ah and ITU T G.984 standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Meet 802.11 b/g/n technical standards
- Support VLAN transparent, tag configuration

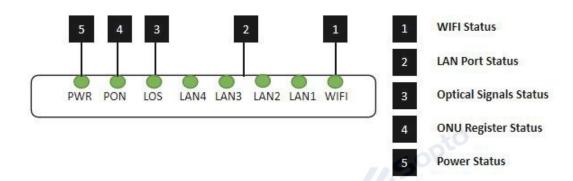




- Support DHCP/Static/PPPOE internet mode
- Support port-binding
- Support OAM/OMCI+TR069 remote management
- Support data encryption and decryption function
- Support Dynamic Bandwidth Allocation (DBA)
- Support MAC filter and URL access control
- Support power-off alarm function ,easy for link problem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

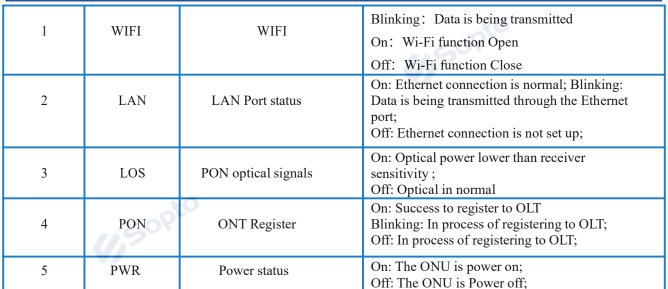
Product Interface and LED Definitions





Indicator Description





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	4*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 Mode	OMCI, OAM, TR069, WEB, Telnet	
Management	Management Function	Status monitor, Configuration management, Alarm management, Log management	
	Power	External 12V DC/1A power supply adapter Power consumption: <7W	





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Physical	Item Dimension 160mm(L)*139.5mm(W)*28.5mm(H)
Specifications	Item Net Weight: about 228g
Environmental	Operating temperature: 0 to 40°C
Specifications	Operating humidity: 10% to 90%(Non-condensing)

WIFI Specification

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Item		Parameter	
	Operating Mode	Router or bridge	
	Antenna gain	5dBi	
	WIFI antenna	2 external antennas	
1		IEEE 802.11b: 11Mbps	
	Throughput	IEEE 802.11g: 54 Mbps	
		IEEE 802.11n: 300Mbps	
	Frequency	2.412 ~ 2.472 GHz	
	Channel	13*Channel, configurable to meet the standard of USA,Canada, Japan and China	
	Modulation	DSSS, CCK and OFDM	
	Coding	BPSK, QPSK, 16QAM and 64QAM	
		802.11b:	
		-83dBm @ 1 Mbps; -79dBm @ 5.5 Mbps;	
		-76dBm @ 11 Mbps	
		802.11g:	
		-85dBm @ 6 Mbps; -77dBm @ 24 Mbps;	
	Receive sensitivity	-68dBm @ 54 Mbps;	
		802.11n HT20 :	
Performance		-85dBm @ MCS0; -73dBm @ MCS4;	
parameters	Sopto	-67dBm @ MCS7	
parameters	50.	802.11n HT40 :	
- V/		-82dBm @ MCS0; -70dBm @ MCS4;	
		-64dBm @ MCS7	
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		802.11b:
		19 ± 1dBm @ 1 Mbps 19±1dBm @ 5.5 Mbps;
		18±1dBm @ 11 Mbps;
		802.11g:
		18 ± 1dBm @ 6 Mbps 17±1dBm @ 24 Mbps;
	Output power	16±1dBm @ 54 Mbps;
		802.11n HT20:
		17 ± 1dBm @ MCS0; 16 ± 1dBm @ MCS4;
	**0	15 ± 1dBm @ MCS7
	Sopto	802.11n HT40:
	50.	17 ± 1 dBm @ MCS0; 16 ± 1 dBm @ MCS4;
W/		15 ± 1dBm @ MCS7
	Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES(WPA2-PSK)

Application

Typical Solution: FTTH

Typical Business: INTERNET, WIFI



FTTH Broadband Access

Ordering Information







Part Number	Product Description	
SPU-GE420W-H	G/EPON ONU, 4 *10/100/1000M UTP Ports, with 2.4GHz WIFI	

Note:

1. Default operating case temperature is $0 \sim 70$ °C. If you need -40 ~85 °C products, add "T" after Part Number

2. If you need more customized services, please contact us.

E-mail: <u>info@sopto.com.cn</u>

Web: http://www.sopto.com.cn

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