



SPU-GE4220AWD-H

TRIPLE PLAY DUAL-MODE ONU



Brief Views

SPU-GE4220AWD-H is an indoor fiber broadband access terminal. The device provides one GPON / EPON adaptive optical port and supports XPON mode. It can be used in connection with our company GPON OLT or EPON OLT. It can also interconnect with the mainstream manufacture (Huawei / ZTE / Fiberhome) GPON or EPON OLT to provide users with Internet, VOIP and CATV services based on GPON and EPON technology. The device performance and functions also meet IEEE802.3ah and ITU-T G984.X technical specifications.

SPU-GE4220AWD-H integrates wireless function which meets 802.11 a/b/g/n/ac technical standards. it supports 2.4GHz/5GHz dual-band wireless signal. The 2.4GHz transmission rate up to 300Mbps and the 5GHz transmission rate up to 867Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

With support for IPv6 / IPv4 Dual Stack function, the SPU-GE4220AWD-H helps operators and end users to achieve IPv6-based network with smooth evolution. This will create more business space for operators and bring future-oriented digital life to users.

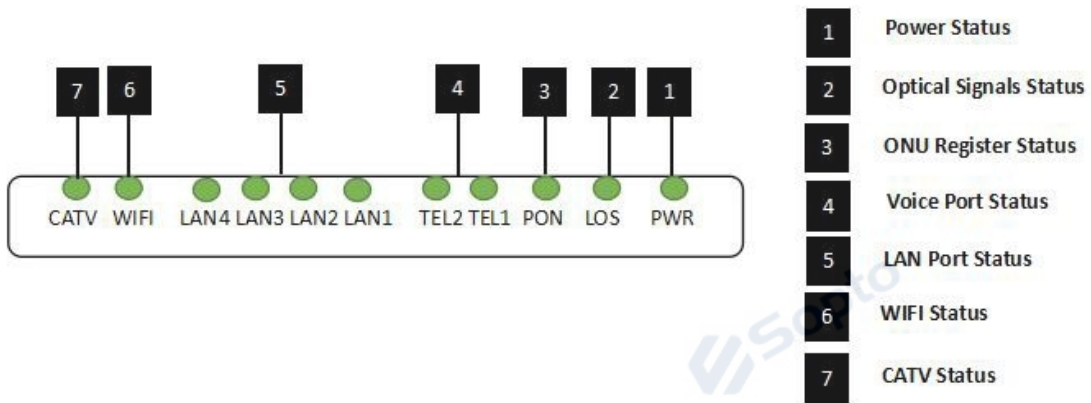
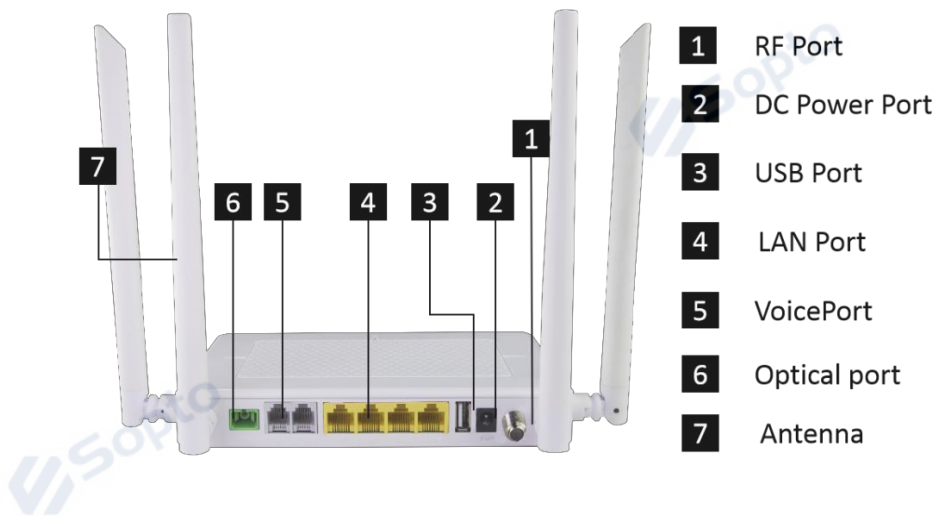
Features

- Single-fiber access, provides internet, voice, CATV, WIFI multiple service
- In compliant with ITU - T G. 984 and IEEE802.3ah standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Meet 802.11 a/b/g/n/ac WIFI technical standard
- Support VLAN transparent, tag configuration



- 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 H.248 and SIP protocol
- 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

Product Interface and LED Definitions





Indicator			Description
1	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;
2	LOS	XPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
3	PON	ONU Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off: In process of registering to OLT;
4	TEL1-2	Telephone port status	On: The connection between the TEL port and the voice server has been set up Blinking: The voice service of the TEL port is established; Off: The connection between the TEL port and the voice server is not set up.
5	LAN1-4	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
6	WIFI	WIFI	Blinking: Data is being transmitted On: WIFI function Opens
7	CATV	CATV status	On: CATV optical normal Off: The CATV signals are not received

Specification

Item		Parameter
Interface	EPON/GPON Interface	SC/APC 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
	CATV Interface	1 RF output F-Type Connector



	POTS Port	2*RJ11 Max 1km distance Balanced Ring, 50V RMS
	Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	USB Interface	1*USB 2.0 interface Transmission Rate: 480Mbps
	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	External 12VDC/1.5A power supply adapter Power consumption: <15W
	Physical Specifications	Item Dimension : 240mm(L) x 240mm(W) x 24mm (H) Item Net Weight : about 335g
	Environmental Specifications	Operating temperature: 0 to 40°C Operating humidity: 10% to 90%(Non-condensing)

WIFI Specification

- Comply with IEEE 802.11a/b/g/n/ac protocol standard, support 2.4GHz and 5GHz
- There are four external antennas
- 5dBi antenna gain
- Maximum ideal rate up to 1.2Gbps
- 2.4GHz supports 2*2 MIMO (Multiple-Input Multiple-Output) technology
- 5GHz supports 2*2 MIMO (Multiple-Input Multiple-Output) technology
- Support 8 SSIDs
- Support wider RF bandwidth, up to 80MHz
- Support higher 256-QAM modulation mode
- Support MIMO-OFDM encoding mode
- Support wireless security of 64/128 bit WEP、802.1x、WPA and WPA2

CATV

Item	Parameter
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Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-18dBm ~ 0dBm
RF frequency	47MHz~1000MHz
RF output level	82dBuV (@-12~-2dBm@85MHz)
Flatness	<±1.5db
CNR	>41dB (@-10dBm@DS22 Channel)
CSO	>58dBc (@-10dBm@DS22 Channel)
CTB	>58dBc (@-10dBm@DS22 Channel)
RF output return loss	>12dB
RF impedance	75Ω

Network Application

- Typical Solution: FTTH, FTTO
- Typical Business: Internet, IPTV, CATV, Voice, WIFI



Ordering Information

Part Number	Product Description
SPU-GE4220AWD-H	G/EPON ONU 4*10/100/1000M Ethernet interface, 2 POTS interface, with CATV support 2.4GHz and 5GHz WIFI 802.11ac , with AGC

If you need more customized services, please contact us.

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