



UB5020 GW

2GE WI-FI XPON ONU

High Bandwidth, Highly Cost-effective for Broadband Access Network

High-quality and affordable Wi-Fi products to make your home/office even more fun.

Brief Views

UB5020 GW 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.

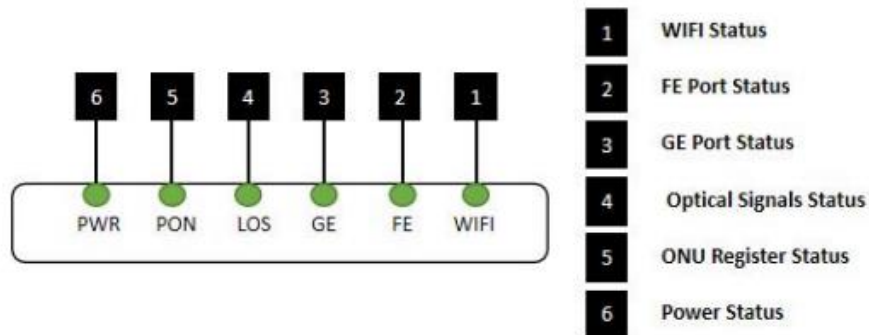
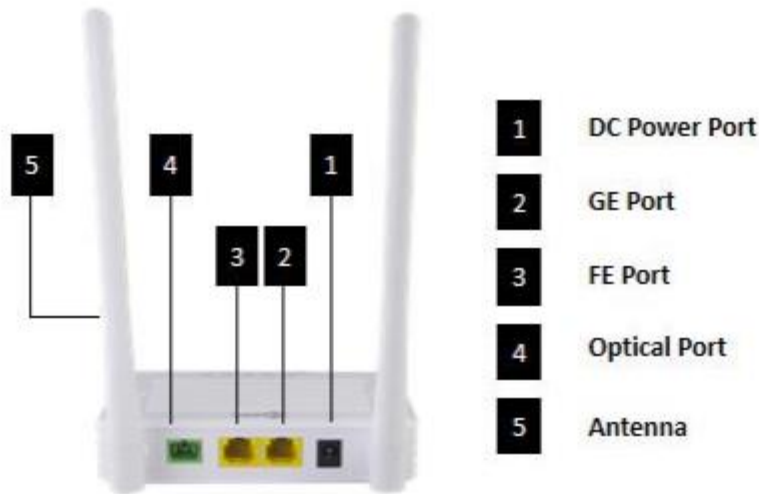
UB5020 GW has a high reliability and provides quality of service guarantee, easy management, flexible expansion and networking. It fully meets the ITU-T and IEEE technical standards and has good compatibility with third party OLT.

UB5020 GW 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.

Functional Feature

- 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 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 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

Product Interface and LED Definitions



Indicator			Description
1	WIFI	WIFI	Blinking: Data is being transmitted On: WIFI function Open Off: WIFI function Close
2	FE	FE Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
3	GE	GE Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
3	LOS	XPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
4	PON	ONT Register	On: Success to register to OLT Blinking: In process of registering to OLT; Off: In process of registering to OLT;
5	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

Specification

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 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

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

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

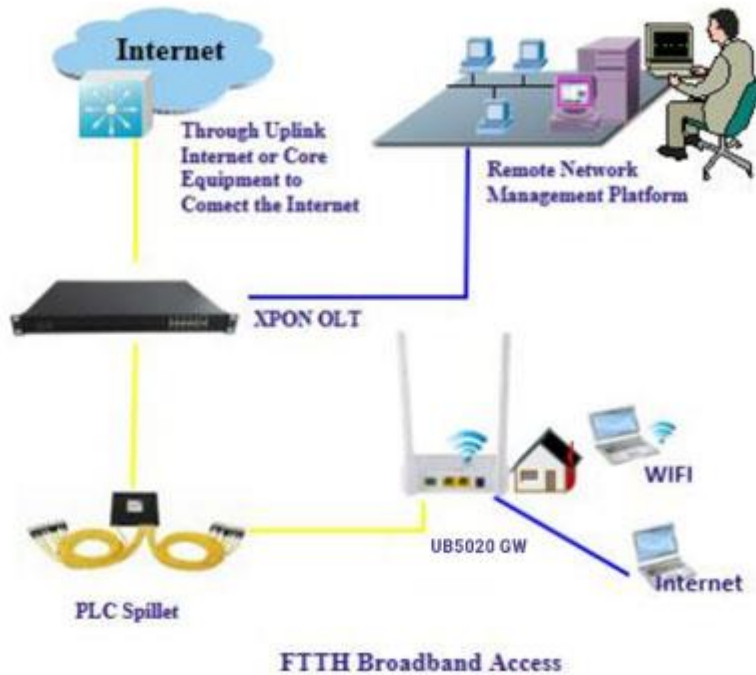
Transmit power : 802.11n: 17dBm

Encryption mode: AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK

Network Application

Typical Solution FTTH

Typical Business INTERNET, WIFI



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