



GB720

2GE +1VOIP+Dual band WiFi+
HDMI XPON ONU
Product Specification



Product Overview

GB720 model ONU is a user terminal device independently developed in line with such industrial background.The device has built-in two-layer switching function and three-layer routing function. With compact structure and small appearance, it is a kind of FTTH optical network unit with high performance and low power consumption, which is very suitable for the application requirements of various data services in FTTH networking scenarios of various operators.GB720 is an XPON product that can be adapted to EPON and GPON networks without replacing equipment and firmware.

Product Specifications

Essential Parameter	
Chip scheme	H618+RTL9607C
STB CPU	Quad-core Arm Cortex-A53 processor at @ 1.5GHz
STB GPU	Arm Mali-G31 MP2 GPU
STB OS (Operating system)	Android 12.0
STB Memory	DDR3 4G
STB Flash	eMMC 5.1 16G/32G/64G/128G
PON	
Speed	GPON uplink rate: 1.25 Gbps Downlink rate: 2.5 Gbps EPON uplink rate: 1.25 Gbps Downlink rate: 1.25 Gbps
Interface standard	ITU-T G.984.2/ITU-T G.984.3/ITU-TG.988 Class B+
TX Optical power	Min: 0 dBm Max: + 5 dBm
Receiving sensitivity	-27dBm
Receive saturation	-8dBm
Transmission distance	0~20km
Service port	
PON port	1 GPON /EPON Port
Ethernet port	2 GE
Audio and video output interface	1 HDMI 1.4
USB port	2 * USB 2.0
Wireless interface	IEEE 802.11 b/g/n /ac wireless LAN
Antenna specifications	4*External antenna, 5 DBI

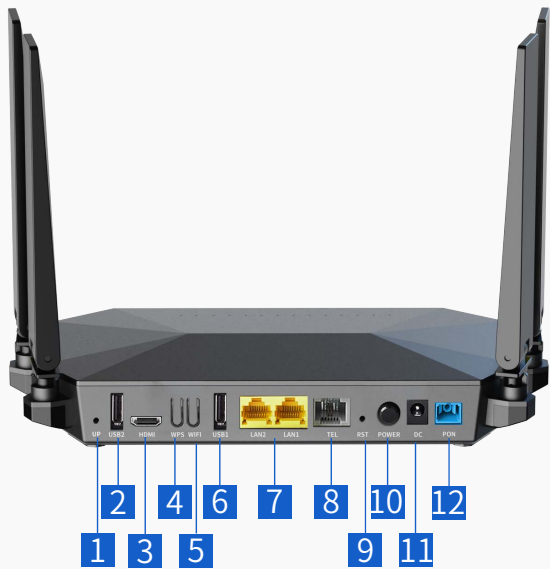
Enviromental parameter	
Storage environment	Temperature-10 to 70°C, relative humidity of 10-90% (non-condensation)
work environment	Temperature 0 to 45°C, relative humidity 10-90% (non-condensation)
Power supply and power consumption	
Power supply	Power input: 100 to 240 V AC, 50 / 60 Hz; power output: 12 V, 1A.5
Product power consumption	≤15W
Size weight	
Product size	264mm x 170mm x 55mm (length, width and height)
Weight (net weight)	300g
ONU software features	
PON characteristic	• Support for EPON / GPON self-adaptation • Follow IEEE 802.3ah, Specification, CTC, and ITU-TG.984 The GPON standard protocol, • GPON:8 T-CONTs,32 GEM Ports • Support the upstream and downstream FEC (Forward Error Correction) function • Support for a priority-level queue based on GEM port and T-CONT • Support power outage alarm • Support multicast/multicast
Ethernet features	• Ethernet self-negotiation and MDI / MDIX automatic monitoring • Support for 802.1D&802.1ad bridging, 802.1p Cos,802.1Q VLAN • Support for entry and exit rate limits • Support port isolation • Data filtering function, such as VLAN tag processing, flow grading, and package filtering function
Gateway features	• WAN port supports routing and bridging modes • The Router mode supports PPPoE / DHCP / static IP, etc • Support for Internet, VoIP, IPTV, TR 069 and other services • Support IPv4, IPv6 and IPv4/IPv6 • The LAN port supports the DHCP and the static IP mode • Support for NAT and NAPT resolution
Group broadcast	• Support for IGMP v1 / v2 / v3, IGMP proxy, and snooping • Support for MLD v1 / v2 proxy and snooping
Qos	• Supports 802.1p priority queue scheduling • Support for the SP scheduling algorithm

VoIP	• support SIP • support DTMF • support G.711a/G.711u/G.722/G.729 Voice encoding • Support for echo cancellation / voice activation detection / soft noise generation / DTMF Relay function • support T.30/T.38 Fax mode • Support for telephone line testing based on GR-909
Firewall	• Guard against DDOS virus attack, support IP / MAC / URL • based package filtering function
Wireless features	• 2.4G WLAN: Maximum rate 300Mbps • 5.8G WLAN: Maximum rate 866Mbps • Support for IEEE 802.11 b / g / n / ac wireless LAN • 2.4 GHz working frequency band: 2400 - 2483.5 MHz • 5.8GHz working frequency band 5180 - 5825 MHz • Support WEP, WPA-PSK, WPA 2-PSK and other encryption modes
Management features	• Support for Huawei, ZTE and Baitong OLT configuration ONU DHCP / PPPOE wan • Support the Baitong OLT management configuration ONU wan configuration, WiFi configuration • Supports remote access to the onu management web pages • Following the TR-069 management protocol • Follow the TR-098 and TR-140 terminal management interface • Supports remote upgrading of the ONU firmware through TR069 and OLT • Support alarm, performance monitoring and other functions
IPTV characteristic	
Video decoding	• H.265/HEVC Main/Main 10 profile@level 5.1 high-tier • H.264/AVC BP/MP/HP@level 5.1, H264/AVC MVC • VP6/VP8/VP9/ MPEG1/MPEG2 /MPEG4/ • Support 4Kx2K decoding 1080p@60fps/ 2x1080p@30fps/ 4x720p@30fps simultaneous encoding
Video resolution	• 1080p, 1080i, 720p, 720i, 480p, 480i
Voice decoding	• MPEG L1/L2 • AAC-LC and HE AAC V1/V2 decoding • APE, FLAC, OGG, AMR-NB, and AMR-WB decoding • G.711(u/a) audio decoding • G.711(u/a), AMR-NB, AMR-WB, and AAC-LC encodin
Image processing	JEPG, BMP, GIF, TIF, PNG

IHDMI interface standard	HDMI 1.4
Screen resolution	Adaptive, 16:9,4:3, etc
Software upgrading	It can be upgraded via a USB disk
Operating system	Android 12.0
Infrared control	Support, 10 meters

Interface

Compatible with OLT Huawei/ZTE/Fiberhome



- 1 UP
- 2 USB2
- 3 HDMI
- 4 WPS
- 5 WIFI
- 6 USB1
- 7 LAN
- 8 TEL
- 9 RST
- 10 POWER
- 11 DC
- 12 PON

Networking application

Typical access scheme: FTTH
Typical services: broadband Internet access, WIFI

