Tenda

All for better networking.
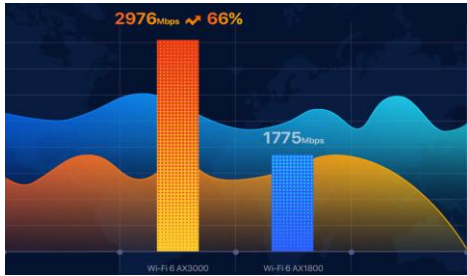
HG21

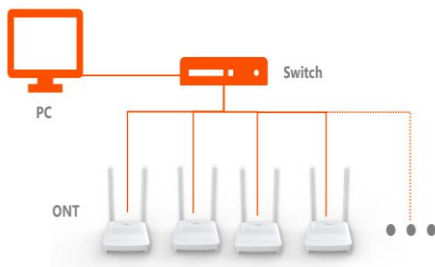AX3000 Wi-Fi6 VoIP xPON ONT

HG21

AX3000 Wi-Fi6 VoIP xPON ONT

Product Description

Tenda's AX3000 Wi-Fi6 VoIP xPON ONT HG21 is a Gigabit Passive Optical Network xPON（EPON&GPON）terminal , ideal for Fiber To The Home solution. It's an all-in-one device allowing user to access high-speed internet, VoIP, IPTV connection via xPON port and share it wirelessly at 3000Mbps wireless 802.11ax speeds. HG21 provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.
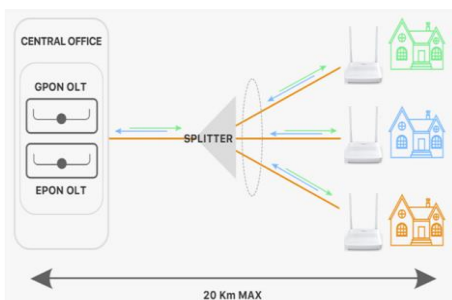
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Product Features

Ultra-speed with Powerful Wi-Fi 6

Both dual-band of HG21 support the new generation of Wi-Fi 6 technology, dual-band concurrent rate up to 2976Mbps (2.4G：574Mbps；5GHz：2402Mbps). Take full advantage of the device's performance and enjoy fast and smooth Wi-Fi 6.
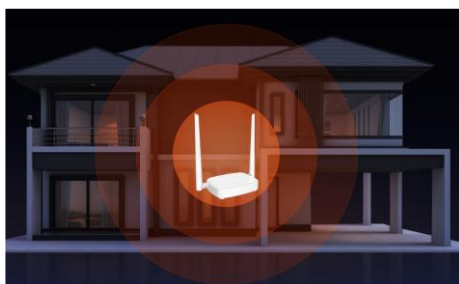
Easy Preset, Pre-Configuration

The HG21 supports custom default configurations and applies them to ONTs in batches. After user misoperation, it can be restored to the default configuration through the reset function. The default configuration can only be modified by the ISP, reducing after-sales service.

Auto-adaption for both EPON and GPON Network

HG21 supports both EPON and GPON network, and it can do auto-adaption when link the fiber cable, ISP Technical support need not to set manually . Our customer can make better choice to fulfill different ISP requirements.

4*6dBi antenna for better Wi-Fi coverage

HG21 uses 4*6dBi super omni-directional gain antennas with TENDA's RF tuning technology, which allows the signal to cover one more wall.

Product Features

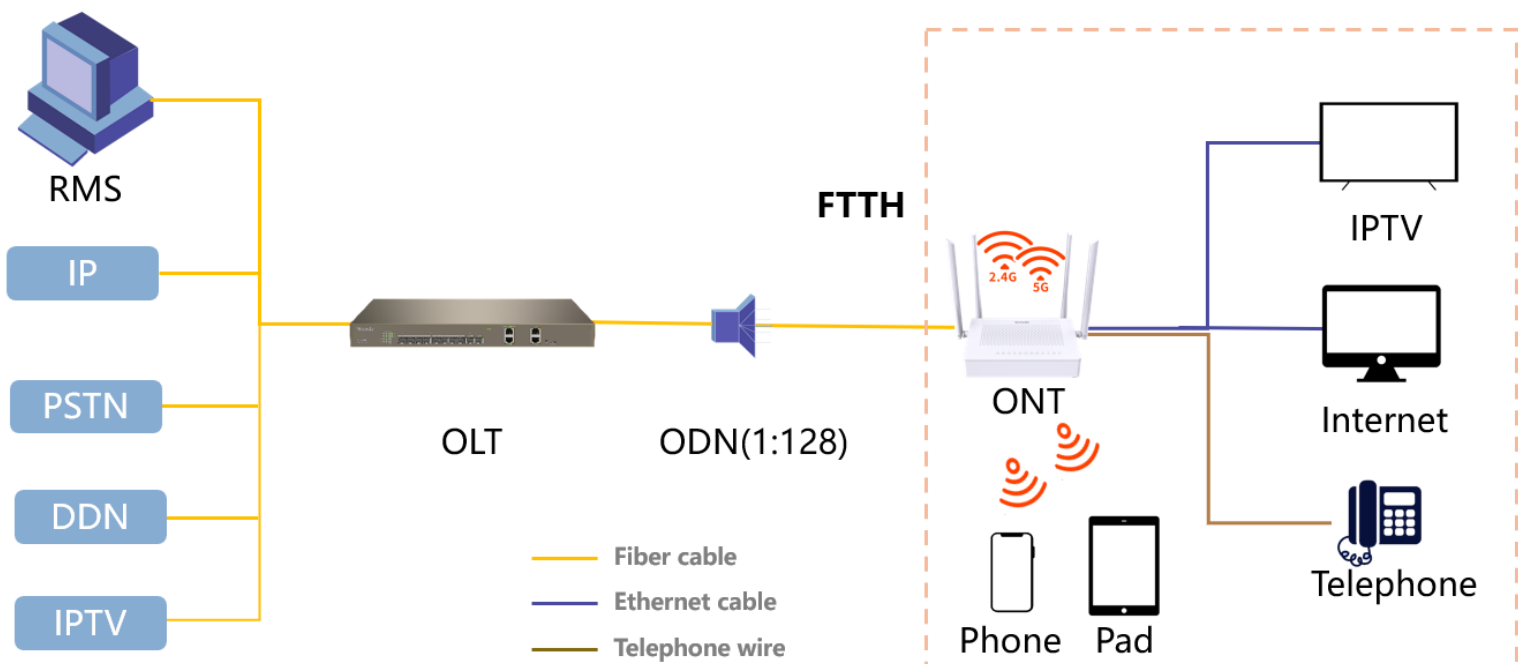
High compatible to worldwide OLTs

Tenda Labs has conducted several compatibility tests on global mainstream OLT brands, such as Huawei, ZTE, Fiber home, NOKIA, Tenda, etc., to ensure that ONU is perfectly adapted to the ISP local environment.

Enjoy Safer Surfing with The Next-Gen Security Protocol WPA3

The HG21 carries a new generation of Wi-Fi security standard WPA3, which increases the difficulty of algorithmic and network password cracking, can prevent forced- attacks , violent cracking, and protect user privacy in open Wi-Fi networks.

Application Scenario

Fiber cable
Ethernet cable
Telephone wire

Tenda

Specification

Software Features

WAN Connection	PPPOE, Dynamic IP, Static IP, Bridge, Support Multiple WAN Connection
DHCP	Server, Client, DHCP Client List, Address Reservation, DHCP Relay
Business Type	TR069, Internet, IPTV, VoIP
Quality Of Service	Bandwidth Control , QOS
IP Version	IPv4, IPv6
Services	DHCP, Dynamic DNS , IGMP Proxy UPnP, Samba
VPN Pass-through	PPTP, L2TP, IPsec Pass-through
Firewall	DDOS,ALG, IP Filter ,Port Filter, Mac Filter, URL Filter Port Forwarding，DMZ
Multicast	IGMP v1/v2/v3, IGMP snooping, MLD v1/v2 snooping
IPv6	RADAD, Dhcpv6, MLD Proxy, MLD Snooping
Diagnostics	Ping, Tracert , Call emulation
TR069	ACS, Connection request
VoIP	Main Proxy, Black Proxy, SIP Advanced, Forward Mode, Speed Dial, Dial Plan , Codec, Hotline, DND, Alarm
Extended function	EasyMesh , Preset
O&M	WEB/TELNET/OAM/OMCI/TR069

Wireless Features

Wireless Standards	IEEE 802.11 a/b/g/n/ac/ax
Wireless Rate	2.4GHz:574Mbps; 5GHz:2402Mbps
Bandwidth	2.4G :20M/40M/80M, 5G: 20M/40M/80M/160M
Channel Range	2.4G : CH1-CH13 ; 5G : CH36-CH48, CH149-CH165
Antenna	4 * 6 dBi Antenna
Easy Client Setup	WPS Button, WPS LED
Transmit Power	2.4G: <20 dBm(EIRP); 5G: <23dBm(EIRP)
Wireless Functions	Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics, Beamforming, Band String, OFDMA, MU-MIMO, BSS Coloring
Wireless Security	64/128-bit WEP, WPA / WPA2/ WPA3
SSIDs	Main SSID at 2.4Ghz and 5GHz 4 Guest SSIDs Both At 2.4GHz and 5GHz
Max Terminal Linked	32 at both 2.4GHz and 5GHz

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Specification

Hardware Features

Standards	ITU G.984.1, ITU G.984.2, ITU G.984.3, ITU G.984.4, IEEE802.3ah, IEEE 802, 802.1Q, 802.10, IEEE 802.11, 802.3U, 802.3Z
Chipset	RTL9607F
Interface	1*SC/APC （or UPC） Port, 4*1000Mbps RJ45 LAN Port, 1*TEL Port, 1*DC Port.
LED	PWR、INET、PON、LOS、LAN1、LAN2、LAN3、LAN4、2.4G、5G、WPS、TEL
Button	1*RST＋1*WPS Button
Optical Mode	Class B+
Optical Wavelength	Transmit at 1310nm, Receive at 1490nm
Transmission Distance	20km Max
Bandwidth	Upstream 1.244Gbps Max, Downstream 2.488Gbps Max
Dimensions (W * D * H)	210mm×140mm×44mm(L×W×H)
TX Power	0.5~5dBm
RX Power	-28~-8dBm
External Power Supply	DC 12V /1.5A
Power Consumption	≤18w

Environment

Operating Temperature	0°c ~ 45°c
Storage Temperature	-40°c ~ 70°c
Operating Humidity	10% ~ 95% （Non-condensing）
Storage Humidity	5% ~ 90% (Non-condensing)

SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Tenda Technology Bldg.International E-City,
#1001 Zhong Shan Yuan Rd.,Nanshan District,Shenzhen China.

E-mail:support@tenda.com.cn
Tel:+86-755-2765 7098
Fax:+86-755-2765 7178
PC:518055