

Tenda



All for better networking.

HG15

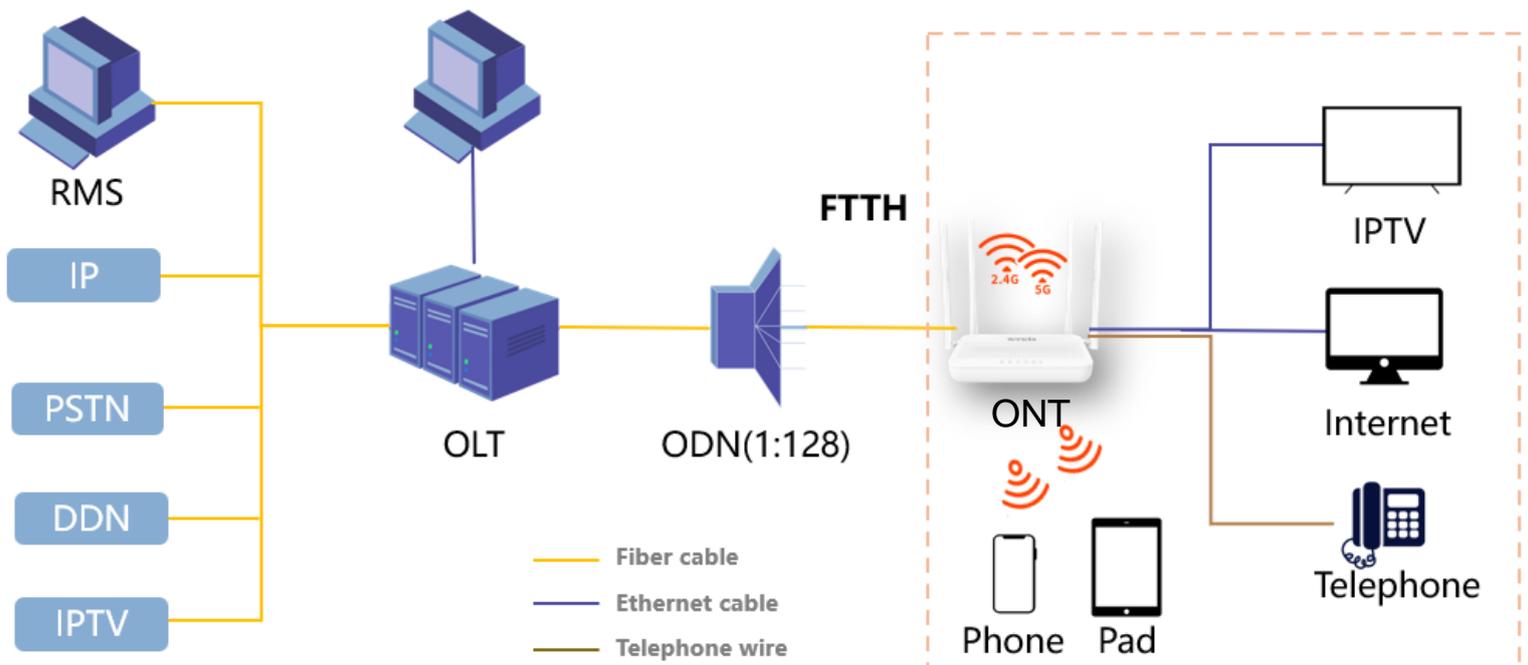
AX1500 Wi-Fi6 VoIP XPON ONT

www.tenda.cn.com

Product Description

Tenda HG15 is a gigabit passive optical network XPON (EPON and GPON) terminal, which provides perfect terminal solutions and future oriented service support capabilities for FTTH deployment, with high cost performance. The device uses the latest 802.11ax Wi-Fi 6 technology standard, is compatible with 802.11ac/b/g/n and supports a connection rate of 1500Mbps. It supports Internet/IPTV/VoIP and other services, features large transmission capacity, fast speeds and high reliability, and is fully compliant with ITU-T G.984. x and other technical regulations.

Application Scenario





New Wi-Fi6 experience

HG15 supports the current generation of Wi-Fi 6 technology, dual-band concurrent rate up to 1500Mbps (2.4GHz: 300Mbps, 5GHz: 1201Mbps), which is 38% faster than the peak speed of the AC1200. Simply enjoy an amazing internet experience with Wi-Fi 6.



4*6dBi high-gain antenna, broader coverage, faster network speed

Watch videos, immerse yourself in VR, play games with friends, watch live streams. Surf at your own pace without fear of lag.



Easy Preset, Pre-Configuration

Reduce installation costs: customise default configurations for batch deployment to devices.

Reduce after-sales costs: after operational errors, it can be reset to ISP default configuration by Reset button.



Good OLT compatibility

Tenda lab has conducted several compatibility tests on global mainstream OLT brands, such as Huawei, ZTE, Fiberhome, NOKIA, CALIX, etc., to ensure that ONT is perfectly adapted to the ISP local environment.

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Specification



Hardware Features

Parameter	Nominal
Interface	1*PON Port + 2*GE (RJ45) + 1*TEL (RJ11)
LED	PWR、PON、LOS、LAN、WLAN、TEL
Button	1*RST/WPS Button
Antenna	4*6 dBi Antenna
Dimension	220.8×141.9×31mm (L×W×H)
Net weight	280g
External Power Supply	DC 12V1.5A
Power Consumption	≤18w
Installation style	Support desktop, wall mount or put inside of information box.
Operating Temperature	0° c ~ 45° c
Authentication	CE、FCC、RoHS、Anatel

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Specification

Interface of device

Port Type	Function
FIBRA	Connect PON port with internet by SC type(APC or UPC), single mode optical fiber cable
LAN 1/2	RJ45 Port connects to local internet, 2 GE port
TEL	Connect the telephone with TEL port by telephone wire
RST/WPS Button	WPS: Press the button for 0 to 1 seconds to perform a WPS wireless encrypted connection; RST: Press 10s-60s to restore the default configuration of the Preset, and 60s to restore the factory configuration of the Tenda.
POWER	Connect with power adapter, DC 12V

Indicators of device

Port Type	status	Description
PWR	Light on	ONT power supply normally
	Light off	ONT no power supply
PON	Light on	ONT gateway registered
	Blink	ONT manage to link
	Light off	ONT not registered
LOS	Blink	Received optical power is lower than the sensitivity of the optical receiver.
	Light off	Received optical power is normal
LAN	Light on	Network port linked, but no data transmitting
	Blink	Network port data pass
	Light off	ONT no power supply or internet cable unlink
WLAN	Light on	WiFi turn on
	Light off	WiFi turn off
	Blink	WPS is negotiating
TEL	Light on	Registered to the SIP server and can be used
	Light off	It is not registered to the SIP server

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Specification

PON Features

Port Type	Function
GPON Standards	ITU G.984.1, ITU G.984.2, ITU G.984.3, ITU G.984.4
EPON Standards	IEEE802.3ah
IEEE Standards	IEEE 802, 802.1Q, 802.10, IEEE 802.11, 802.3U, 802.3Z
Connector style	SC/PC (APC or UPC)
PON quantity	1
Wavelength	Transmit at 1310nm, Receive at 1490nm
Optical Mode	Class B+
Bandwidth	Upstream 1.25Gbps Max, Downstream 2.5Gbps Max
TX Power	0.5~5dBm
RX Power	-28~-8dBm
Transmission Distance	20km Max

Wi-Fi Features

Port Type	Function
Wireless Standards	IEEE 802.11 a/b/g/n/ac/ax
Wireless Rate	2.4GHz:300Mbps; 5GHz:1201Mbps
Bandwidth	2.4G :20M/40M, 5G: 20M/40M/80M
Frequency	2.4G: 2.412-2.472GHz 5G: 5.170-5.250GHz; 5.735-5.815GHz; 5.815-5.835GHz
Channel Number	2.4G: 13 5G: 9
Transmit Power	2.4G: <25.5 dBm(EIRP); 5G: <22.5dBm(EIRP)
Wireless Functions	Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics, Beamforming, OFDMA, MU-MIMO
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

POTS Specifications

- support SIP voice protocol
- support H.248 voice protocol
- SIP protocol: ISP provide the port number of the main SIP proxy server and terminal VOIP
- Value range is 1-65535, system default value is 5060
- Port ringing current voltage: $50 \pm 10\text{VAC}$, $30 \pm 10\text{H}$
- Port type POTS(VOIP)
- Support G.711 A-Law/u-Law,G729A/B,G.723.1-5.3/6.3,G.726.etc.voice coding/compressed technology

Special function

- Support TR069,NAT,DMZ,DNS features
- Support Multiple SSID
- Support Multiple VLAN
- Support 802.11ax(WIFI6)
- Support MU-MIMO
- Support QOS
- Support Preset
- Support Easy Mesh and tenda xmesh
- Support IPV6 ,PPPoE, DHCP and Static IP configuration for WAN Interface
- Support IP, MAC filtering, DDOS, Firewall Functionality in routed mode
- Support for xPON, adaptive EPON or GPON OLT on the network