

**Tenda**



All for better networking.

**HG15S**

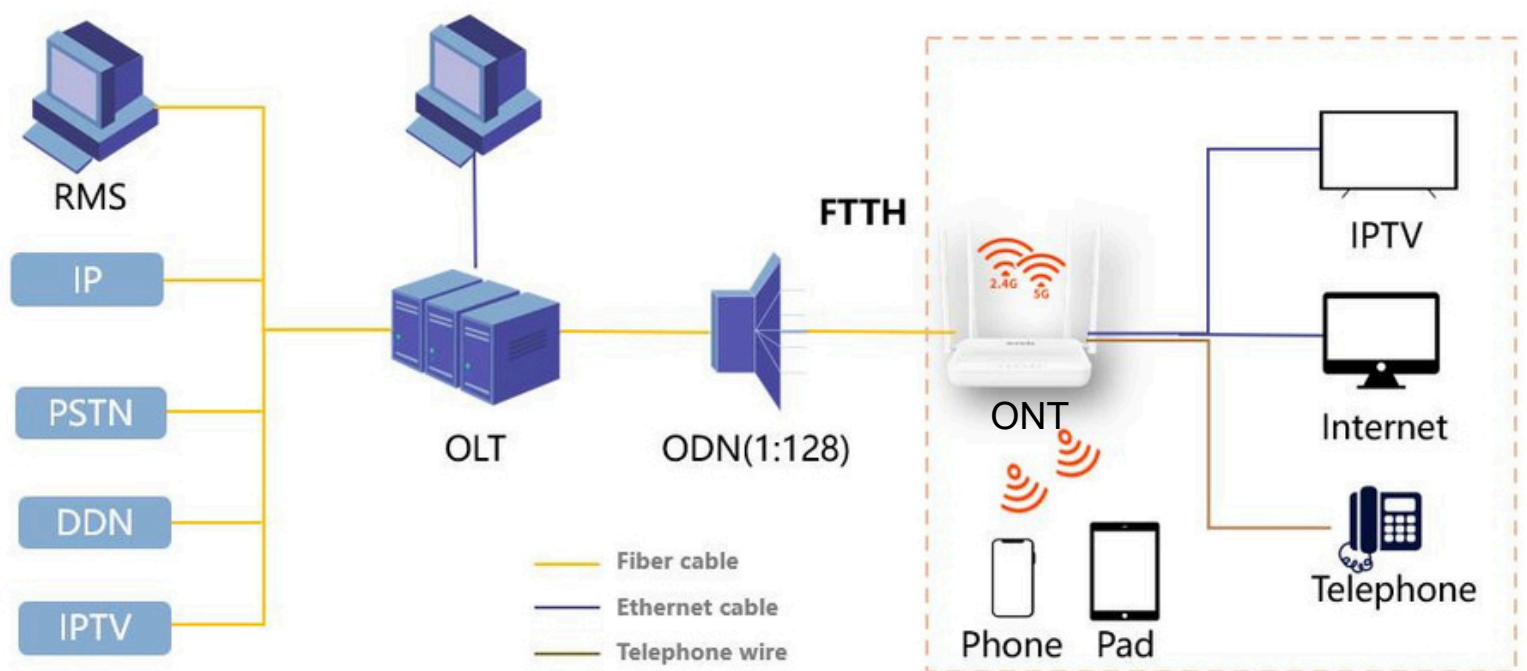
**AX1500 Wi-Fi6 VoIP XPON ONT  
with CATV port**

[www.tendacn.com](http://www.tendacn.com)

### Product Description

Tenda HG15S 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/analog TV 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.



### **Remote control over CATV port**

HG10S comes equipped with an integrated CATV port, offering full remote control capabilities.

# Tenda

## Specification



### Hardware Features

Parameter	Nominal
Interface	1*PON Port + 4*GE (RJ45) + 1*TEL (RJ11)
LED	PWR、PON、LOS、LAN、WLAN、TEL
Button	1*RST/WPS Button
Antenna	4*6 dBi
Dimension	220.8×141.9×31mm (L×W×H)
Net weight	280g
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、RoHS、Anatel

### Interface of device

PortType	Function
FIBRA	Connect PON port with internet by SC type(APC or UPC), single mode optical fiber cable
LAN 1/2/3/4	RJ45 Port connects to local internet, 4 GE port
TEL	Connect the telephone with TEL port by telephone cable
RST/WPS Button	WPS: Press the button for 0 to 1 seconds to perform a WPS wireless encrypted connection;
POWER	Connect with power adapter, DC 12V

### Indicators of device

LED	status	Description
PWR	Light on	The ONT is powered on properly.
	Light off	The ONT is powered off or not powered on properly.
PON	Light on	The ONT is registered successfully.
	Blink	The registration is not completed (unregistered or registering).
	Light off	The received optical power is lower than the optical receiver sensitivity, or no fiber cord is connected.
LOS	Blink	The received optical power is lower than the optical receiver sensitivity, or no fiber cord is connected.
	Light off	The received optical power is within the optical receiver sensitivity.
LAN	Light on	The LAN port is connected properly, but no data is being transmitted over the corresponding port.
	Blink	The LAN port is connected properly, and data is being transmitted over the corresponding port.
	Light off	No Ethernet device is connected or the Ethernet device is not connected to the LAN port properly.
WLAN	Light on	The Wi-Fi network is enabled.
	Light off	The WPS is negotiating.
	Blink	The Wi-Fi network is disabled.
TEL	Light on	The ONT is registered with IMS, but no data is being transmitted.
	Light off	The ONT is registered with IMS, and data is being transmitted.

### PON Features

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

Wireless Standards	IEEE 802.11 a/b/g/n/ac/ax 2.4GHz:300Mbps;
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; 5.735-5.835GHz
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

### CATV Features

Bandwith	54-870 MHz
Output resistance	75 ohms
Received avg optical power	-8 dBm to +2 dBm
RF output power	≥17 dBmV/Ch

### Others

Package Contents	1*HG15, 1* Power adapter, 1* User manual, 1* RJ45 cable, 1*RJ11 cable
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### POTS Specifications

- ☐ support SIP voice protocol
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- ☐ 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

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