

GPON ONT – HG326

Introduction

HG326 is designed for fulfilling FTTH (Fiber To The Home) and triple play service demand of fixed network operators. The box is based on the mature Gigabit GPON technology, which has high ratio of performance to price, and the technology of 802.11n WiFi (2T2R), Layer 2&3 and high quality VoIP as well. It is highly reliable

and easy to maintain, with guaranteed QOS for different service. And It is fully compliant with technical regulations such as ITU-T G.984.x and technical requirement of GPON Equipment (V2.1 and above version) from China Telecom.



Special features

- Plug and play, integrated auto detecting, auto configuration, and auto firmware upgrade technology.
- **Integrated OMCI and TR069 remote configuration and maintenance function.**
- Support rich QinQ VLAN, DHCP Server/Relay and IGMP/MLD snooping multicast feature.
- Support fiber transceiver diagnostic monitoring, fiber transmitter disable remotely.
- **Fully compatibility with OLT based on Broadcom chipset.**
- Support 802.11n WiFi (2T2R) function.
- Support NAT, Firewall function.
- Support IPv4 and IPv6 dual stack.
- Integrated line testing compliant with GR-909 on POTS.
- **WAN port supports bridge, router and bridge/router mixed mode.**

Technical parameters

Technical items	Descriptions
Chipset	Broadcom BCM68380F
Optical interface	1 x GPON interface, SC single-mode/single-fiber, Downstream rate 2.5 Gbps, Upstream rate 1.25 Gbps
Optical Wavelength	Tx 1310 nm, Rx 1490 nm
Optical interface	SC/PC
RX sensitivity	< -25 dBm @ 1490 nm
WLAN	Compliant with IEEE802.11b/g/n, 300 Mbps, 2T2R one internal antenna and one external antenna
WLAN throughput	100 Mbps @ 40 users, 1518 bytes, no-encryption 107 Mbps @ 40 users, 512 bytes, encryption
LAN interface	4 x 10/100/1000 Mbps Auto adaptive Ethernet interfaces, Full/Half Duplex, RJ45 connectors
POTS interface	2 x FXS, RJ11 connectors
USB Interface	1 x USB 2.0
Indicators	13 indicators (PWR, PON, LOS, WAN, WiFi, FXS1, FXS2, ETH1, ITV, ETH3, ETH4, Pair, USB)
DC power supply	+12V@1A, external AC-DC power adaptor
Buttons	RST, Power, WiFi, Pair (WPS), Indicator LED Turn on/off
Power consumption	≤ 10W
Operating condition	Operating temp: -5 ~ +55°C, Operating humidity: 10~90% (non-condensed)
Storing condition	Storing temp: -30 ~ +60°C, Storing humidity:10~90% (non-condensed)
Dimension	205 mm x 138 mm x 50 mm (length x width x height)
Net weight	0.4 Kg

Data Service Functions

- Full speed non-blocking switching.
- **2048 MAC address table.**
- **64 full range 4095 VLAN ID**
- Support VLAN QinQ, transparent, tag, translation, trunk, etc.
- Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc.
- Support auto polarity detection of Ethernet ports (AUTO MDIX).
- Integrated IEEE802.1p QoS with four level priority queues.
- Support IPv4 IGMP snooping and IPv6 MLD snooping.
- Support bridging, router and bridging/router mixed mode.

POTS Service Functions

- Call protocol: SIP (IMS compatible), seamless compatible with all popular call agent.
- Integrate heartbeat function and support active/standby call agent.

- Voice coding: ITU-T G.711/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent.
- Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128 ms tail length.
- Support high/low speed fax/Modem, bypass fax, and T38 fax.
- Support RFC2833 and redundant RFC2833, difference rings, MD5 authentication, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service.
- Multi-party conferencing.
- Line testing according to GR-909.
- IP address assignment: dynamic PPPoE/DHCP Client and static IP.
- **Support WEB, CLI, TR069.**
- Integrated OAM, XML, DHCP option 66 & 67 for auto configuration and firmware upgrade.
- Call loss is less than 0.01%.

WiFi service

- Integrated 802.11b/g/n, 300 Mbps, 2T2R.
- Support 128 connections.
- Support WEP and WPA/WPA2 security protocols.