

Internet Access Solution

Dual Mode xPON ONT+ 300Mbps Wireless Router

MODEL: FHR3100GZB + FHW11



FHR3100GZB

Dual Mode xPON ONT

1GE LAN Port

FHW11

802.11n 300Mbps Router

1FE WAN + 2FE LAN



Overview

FHR3100GZB xPON ONT and FHW11 300Mbps Router package solution is developed by FH-NET for the broadband access market based on EPON/GPON technology to meet the needs of Telecom operators for broadband access and FTTH. Together with FH-NET OLT central office products and EMS network management system. 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) and comply with IEEE802.3ah, meet the "YD/T 1475-2006 access network technical requirements of EPON and "the China Telecom EPON equipment technical requirements" for GEAPON Related requirements for ONT equipment.

It is a small-capacity system which can well meet the application of FTTH/FTTO/FTTB network. Efficient bandwidth utilization and Ethernet service support capabilities help operators deliver reliable service quality assurance to their customers. The device supports the up-link and down-link symmetric 1Gbps transmission rate, providing users with good QOS guarantee and flexible bandwidth allocation. Efficient bandwidth utilization and Ethernet service support capabilities help operators deliver reliable service quality assurance to their customers.

Integrated wireless function, fully compliant with 802.11 n/b/g wireless standard protocol, built-in high-gain directional antenna, wireless transmission rate up to 300Mbps, with strong penetrating power and wide coverage, providing users with more efficient data transmission guarantee.

Characteristics

- Plug and play, integrate auto detection, auto configuration and auto firmware upgrading;
- Support diagnostic monitoring and remote disabling of fiber optical;
- Full speed 1G non-blocking switching;
- 2048 MAC address table;
- 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;
- Supports mixed network with mainstream OLT to minimize operators' network construction costs;
- With the industry's most advanced technology, it has powerful functions and QoS guarantees in Ethernet services;
- Desktop devices take up less space and consume less power.
- Incredible wireless high speed up to 300Mbps, great for faster downloading, Internet calling and HD video streaming
- MIMO high gain 5dBi antennas providing maximum range and stable connections
- Dual operation modes– Router, Bridge (pure access point)
- Various WAN connection types in AP Router mode– DHCP, Static IP, PPPoE, L2TP, PPTP, Dual Access, WISP
- Multiple wireless modes– AP, Repeater, AP+WDS, WDS, Client
- Multi-SSID providing up to 3 additional separate networks for guests and friends
- Easy wireless security setup at a push of the WPS button
- Intelligent bandwidth control to manage the bandwidth usage for each computer reasonably
- Internet Access Control– IP filtering, MAC Filtering, Domain Filtering based on time
- Quick setup, with built-in multilingual management page

ONT Specification

Technical items	Descriptions
Dimension	100*65*20mm(length*width*height)
Net weight	≤0.1Kg
Fiber port	1 GPON interface, SC single-mode/single-fiber, Downstream rate 2.5Gbps, Upstream rate 1.25Gbps
Wavelength	Tx 1310nm, Rx 1490nm
Fiber interface	SC/PC
RX sensitivity	<-28dBm (1490nm)
LAN	1*10/100/1000Mbps adaptive Ethernet ports, full/half duplex, RJ45 interface
Throughput	Throughput can reach 900Mbps or more
DC power	5V 1A, external AC-DC power adapter
Button	Reset, power
Power	≤8W
Operation	Working temperature: -5~+55°C working humidity:10~90% (non-condensation)
Storage	Storage temperature: -30°C~+60°C storage humidity: 10~90% (non-condensation)

Router Specification

Wireless	
Standards	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
Signal Rate	Up to 300Mbps
Frequency Range	2.4–2.4835GHz
Transmit Power	20dBm(MAX)
Data Transfer Rate	<p>802.11n: 40MHz (300Mbps, 270Mbps, 240Mbps, 180Mbps, 120Mbps, 90Mbps, 60Mbps, 30Mbps) 20MHz (144Mbps, 130Mbps, 115Mbps, 86Mbps, 57Mbps, 43Mbps, 28Mbps, 14Mbps) (Auto–Sense)</p> <p>801.11g: (54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 11Mbps, 9Mbps, 6Mbps)</p> <p>802.11b: (11Mbps, 9Mbps, 6Mbps, 5.5Mbps, 2Mbps, 1Mbps)</p>
Wireless Mode	AP, Repeater, AP+WDS, WDS, Client, Multi–SSID
Wireless Security	<p>64/128–bit WEP, WPA–PSK/WPA2–PSK (TKIP/AES) SSID Broadcast Enable/Disable Wireless MAC Filtering</p>
Hardware	
Standards	IEEE 802.3 10Base–T, IEEE 802.3u 100Base–TX

Interface	1 * 10/100Mbps Auto MDI/MDIX RJ45 WAN port 2 * 10/100Mbps Auto MDI/MDIX RJ45 LAN port
LED	PWR, WLAN, LAN1-LAN4, WAN, WPS
Button	WPS, Default
Antenna	4 * 5dBi Fixed Antenna
Power Supply	DC 9V/500mA (Output)
Software	
WAN Type	DHCP, Static IP, PPPoE, L2TP, PPTP, Dual Access, WISP
Port Forwarding	Virtual Servers, Port Triggering, UPnP, DMZ, FTP Private Port
QoS	WMM, Bandwidth Control
Access Control	IP/MAC/Domain Filtering
VPN Pass-through	PPTP, L2TP, IPSec
Others	IPTV, Dynamic DNS, Static Routing, WOL, Backup & Restore, Firmware Upgrade
Others	
Certification	FCC, CE
Environment	Operating Temperature: 0°C~40°C Storage Temperature: -40°C~70°C Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
Package	1* FHW11 1* 9V/500mA Power Adapter 1* Quick Installation Guide (Multilingual)

Application

