

WIFI-7 GPON GATEWAY

MODEL: GFD172



OVERVIEW

The GoFiber WiFi-7 GPON Dual-Band Gateway delivers next-generation connectivity through WiFi 7 technology, providing ultra-fast internet and high-speed fiber-optic GPON connectivity. With dual-band wireless speeds reaching up to 7200Mbps and a 2.5GE port, designed to handle the demands of modern smart homes and businesses, offering seamless, secure, and reliable performance.



Multi-Link
Operation (MLO)



Lower latency with
minimal buffering



Dual - Band
WiFi - 7



Maximum speed and
flexibility for fiber and
DSL

Hardware

CPU	Quad-core A53 ARM 1.2GHz
Flash	NAND 256MB
RAM	1GB
Buttons	• Power On/Off • Reset • WPS
LEDs	• PWR • PON • LOS • INT • 2.5GE WAN/LAN • LAN1~4 • 2.4G • 5G • WPS • USB • TEL

Housing

Dimensions*	207*79*242(D*W*H)
Oper. Temp.	Operating: 0 ~ 45°C (32~113°F) Storage: -20 ~ 65°C (-4 ~149°F)
Oper. Relative Humidity	5% – 95%
Color	Black
Sustainability	Option for recycled plastic

Regulatory Compliance

EMC/EMI	CE
Safety	CB

Power

Power Input	12V DC nominal, 2 Amp
-------------	-----------------------

Interface

- 1xGPON port, SC/APC
- 1x 2.5Gbps ethernet (WAN/LAN configurable)
- 3x 1Gbps ethernet
- 1x USB 3.0
- 1x FXS

Wi-Fi specifications

- Dual-band concurrent Wi-Fi™ 7 (802.11be)
- 2.4 GHz (4T4R)
 - 5 GHz (4T5R)

Wi-Fi EasyMesh™ R2 on-boarding and roaming

Software Specifications

PON Basic

- Support ITU-T G.987.1/2/3
- Support ITU-T G.988
- Support 40 Tcont, 256 Gemport
- Support FEC (Forward Error Correction) downstream and upstream
- Support SBA/DBA
- Support Dying-gasp

Management WEB/TR069/TELNET/CLI

DHCP

- Support DHCP Server
- Support DHCP Relay

WLAN

- Support Frame aggregation
- Support Host sleep(AP mode)
- Support Airtime Fairness(QoS)
- Support WFA
- WPA/WPA2/WPA3,WPS2.0,WAPI
- Support 802.11w protected managed frames
- Support WFA WMM, WMM PS
- Support WIFI Direct
- Support Easy Mesh R4, R6 under certification
- Support band steering

VLAN

- Support VLAN tag mode
- Support VLAN transparent mode
- Support VLAN trunk mode
- Support VLAN translation mode
- Support VLAN QinQ mode

Multicast

- Support IGMPv1/v2/v3
- Support IGMP Proxy and MLD Proxy
- Support IGMP Snooping and MLD Snooping

QOS

- Support 8 queues
- Support SP and WRR
- Support 802.1P
- Support DSCP

Security

- Support Firewall
- Support Mac filter
- Support ACL
- Support URL filter
- DoS Attack Protection

VOIP

- Support SIP protocol
- Support Voice coding: ITU-T G.711/G.722/G.729
- Support Fax over IP
- Support Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length
- Support high/low speed fax/Modem, bypass fax, and T.38 fax
- Support InBand / RFC2833/SIP INFO, MD5 authentication, call forward, call waiting, hot-line call, and all kinds of value-added voice service. Multi-party conferencing
- Support Voice Activity Detection and Comfort Noise Insertion

L3

- Support IPv4、IPv6 and IPv4/IPv6 dual stack,DS-Lite
- Support DHCP/PPPOE/Statics
- Support Static route
- Support NAT
- Support Bridge, Route ,Route and Bridge mixed mode
- Support DMZ
- Support DNS
- Support ALG
- Support UPnP

Other Support image backup

Block Diagram

