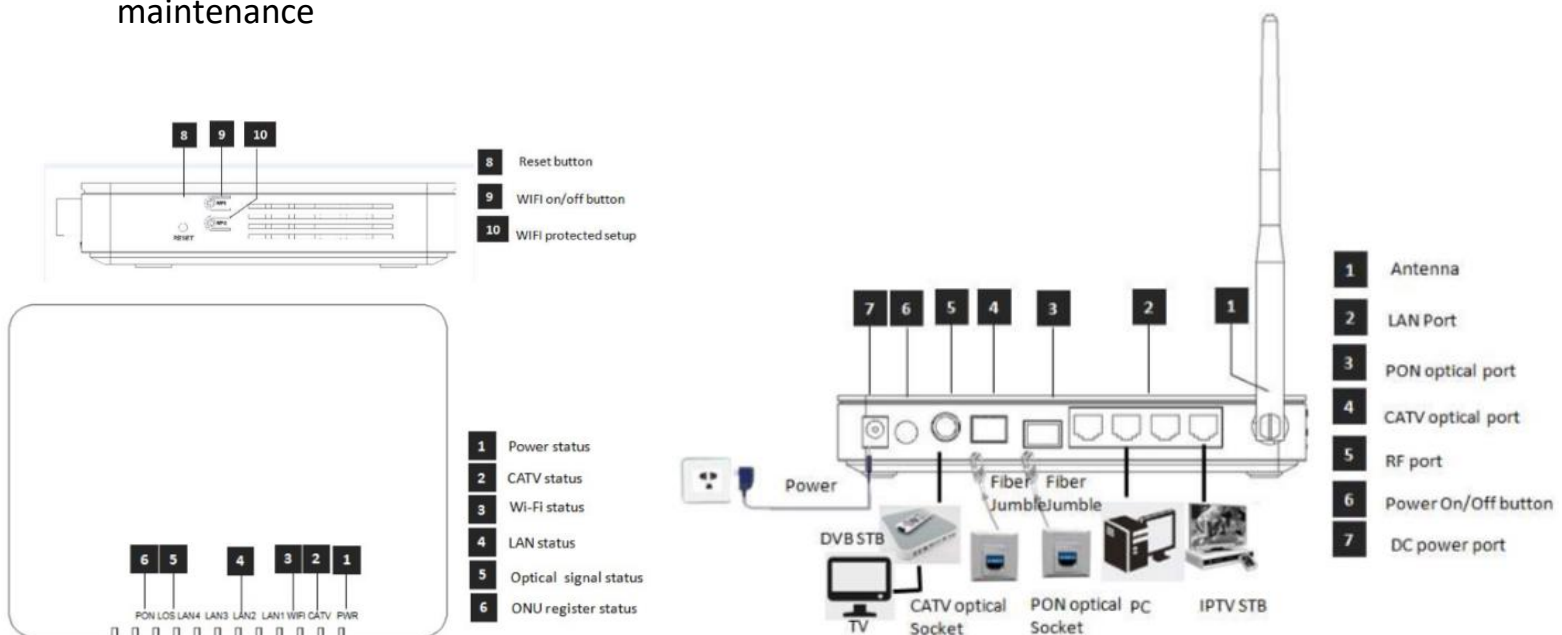# ONT Comcast F784

Brief Views

CGG-F784 series is fiber to the home multi service access GPON ONT. It's based on the mature, stable, high cost performance GPON technology and has gigabit Ethernet switching and HFC technology. CGGF784 series has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the ITU G.984 requirements and have good compatibility with third party manufacturers OLT such as ZTE.

Model Product

Product Name	Product Model	Descriptions
4GE+WIFI Single Fiber	CGG-F784W	4*10/100/1000M Ethernet interface, 1 GPON interface, Wi-Fi function, Plastic casing, external power supply adapter
4FE+CATV+WIFI Single Fiber	CGG-F784WP	4*10/100M Ethernet interface, 1 GPON interface, 1 HFC PASSIVE optical interface, Input optical power 8dBm～0dBm, support Wi-Fi function, Plastic casing, external power supply adapter
4GE+CATV+WIFI Single Fiber	CGG-F784CW	4*10/100/1000M Ethernet interface, 1 GPON interface, 1 HFC optical interface, Input optical power -18dBm～0dBm, support Wi-Fi function and AGC function, Plastic casing, external power supply adapter

Functional Feature

- Support port-based rate limitation and bandwidth control;
- In compliant with ITU - T G. 984 Standard
- Wi-Fi series meet 802.11 n/b/g technical standards
- Support data encryption, group broadcasting, port Vlan separation.
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software;
- Support port mode of VLAN configuration
- Support power-off alarm function, easy for link problem detection
- Support broadcasting storm resistance function
- Support port isolation between different ports
- Support port flow control
- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- EMS network management based on SNM ,convenient for maintenance

8	Reset button
9	WIFI on/off button
10	WIFI protected setup

1	Power status
2	CATV status
3	Wi-Fi status
4	LAN status
5	Optical signal status
6	ONU register status

1	Antenna
2	LAN Port
3	PON optical port
4	CATV optical port
5	RF port
6	Power On/Off button
7	DC power port

Specification

Uplink Interface	• 1*GPON port, FSAN G.984.2 standard, Class B+ • Downstream Data Rate：2.488Gbps • Upstream Data Rate：1.244Gbps • SC/PC single mode fiber • 28dB Link loss and 30KM distance with 1:128 • CATV Interface: 1 HFC Optical input • SC/APC
User Ethernet Interface	• 4*10/100M or 4*10/100/1000M auto-negotiation • Full/half duplex mode • RJ45 connector • Auto MDI/MDI-X • 100m distance • 1 RF output Female F-Type Connector
Power Interface	12V DC Power supply
PON Optical Parameter	• Wavelength: TX 1310nm, Rx1490nm • TX Optical Power: 0～5dBm • Rx Sensitivity: -27dBm • Saturation Optical Power: -8dBm • Connector Type: SC Optical Fiber: 9/125ym single-mode fiber
Data Transmission Parameter	• PON Throughput: Downstream 2.488Gbit/s; Upstream 1.244Gbit/s Ethernet: 100Mbps or 1000Mbps • Packet Loss Ratio: <1*10E-12 • latency: <1.5ms
Business Capability	• Layer 2 wire speed switching • Support VLAN TAG/UNTAG,　VLAN conversion • Support Port-based speed limitation • Support Priority classification • Support storm control of broadcast • Support loop detection
Network Management	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Standard compliant OMCI interface as defined by ITU-T G.984.4 Support WEB management
Management Function	Status monitor, Configuration management, Alarm management, Log management
Power	• 4FE+CATV: 　　　<5.5W, 12V/0.6A power supply adapter • 4FE+WIFI+CATV: 　<6.8W, 12V/1A power supply adapter • 4GE+CATV: 　　　<6W, 12V/0.6A power supply adapter • 4GE+WIFI+CATV: WIFI:<7.3W, 12V/1A power supply adapter
Physical Specifications	Item Dimension：170mm(L)*130mm(W)*30mm(H)Item weight：0.3kg
Environmental Specification	Operating temperature: 0 to 50ºC Storage temperature: -40 to 85ºC Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)