

F-782TW5

CGG-F782TW5

2GE+1POTS(option)+WiFi BGNAC

COMCAST  GROUP



Content

Product overview	2
Special Features.....	2
functional characteristics	2
Technical indicator	2
Technical indicator	2
Software function.....	2
Typical application diagram	2



Product overview

2GE+1POTS_(option)+WiFi GPON/EPON HGU terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators. These boxes are based on the mature Chipset (Realtek) technology, which have high ratio of performance to price, and the technology of IEEE802.11b/g/n/ac WiFi, Layer 2/3, and high quality VoIP as well. Support full management of HGU devices through OLT. They are highly reliable and easy to maintain, with guaranteed QoS for different service. And they are fully compliant with technical regulations such as IEEE802.3ah、ITU-T G.984.x and technical requirement of GPON Equipment.



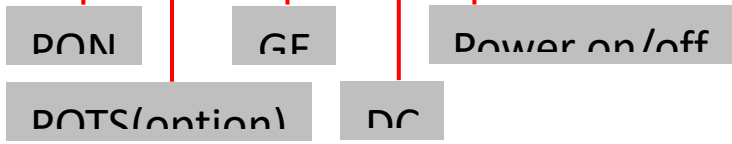
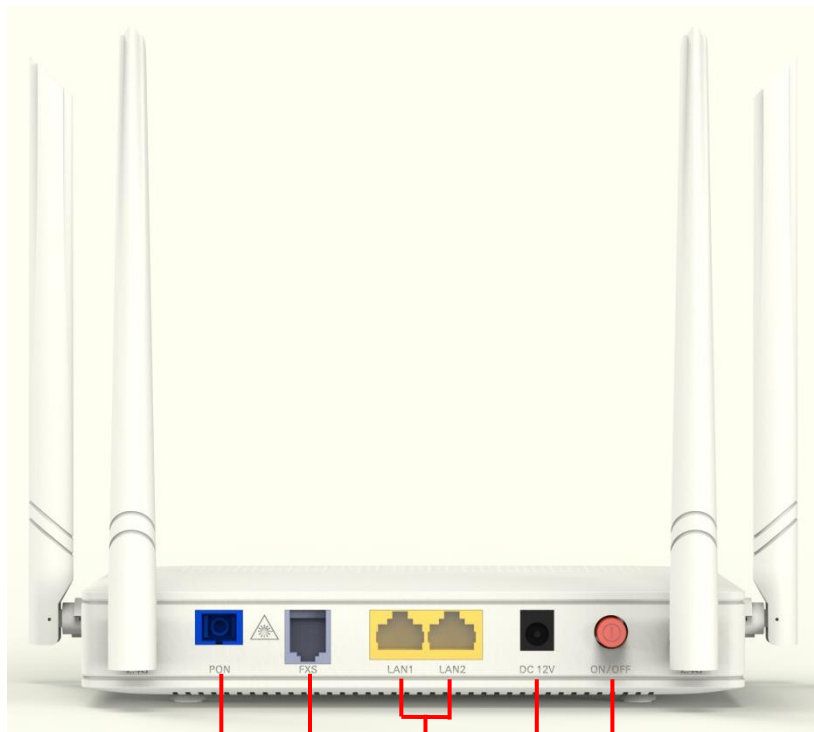
Special Features

- Support full management of HGU functions by OLT
- Plug and play, features auto-detecting, auto-configuration, and auto firmware upgrade , etc
- Integrated OAM/OMCI remote configuration and maintenance function
- Support rich QinQ VLAN functions and IGMP Snooping multicast features
- Fully compatibility with OLT based on Broadcom/PMC/Cortina chipset
- Support 802.11n/ac WiFi(4T4R) function
- Support NAT, Firewall function
- Support IPv4 and IPv6 dual stack
- Support SIP protocol



functional characteristics

Product appearance features





Technical indicator

Technical item	2GE+1POTS(option)+WiFi
PON interface	1 G/EPON port(EPON PX20+ and GPON Class B+) Receiving sensitivity: $\leq -28\text{dBm}$ Transmitting optical power: $0 \sim +4\text{dBm}$ Transmission distance: 20KM
Wavelength	Tx1310nm,Rx 1490nm
Optical interface	SC/UPC connector
LAN interface	2 x 10/100/1000Mbps auto adaptive Ethernet interfaces, Full/Half, RJ45 connector
POTS interface (option)	1 x RJ11 connectors Support: G.711A/G.711U/G.723/G.729 codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay
WiFi interface	Compliant with IEEE802.11b/g/n/ac 2.4GHz Operating frequency: 2.400-2.483GHz 5.0GHz Operating frequency: 5.150-5.825GHz Support MIMO, 4T4R,5dBi external antenna, rate up to 1.167Gbps Support: multiple SSID TX power: 11n--22dBm/11ac--24dBm
LED	9, For Status of POWER、LOS、PON、WAN、LAN1、LAN2、2.4G、5G、PHONE(option)
Operating condition	Temperature: $0^{\circ}\text{C} \sim +50^{\circ}\text{C}$ Humidity: 10%~90% (non-condensing)
Storing condition	Temperature: $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$ Humidity: 10%~90% (non-condensing)
Power adapter	DC 12V/1.5A or DC 12V/1.0A
Power supply	$\leq 10\text{W}$
Dimension	178mm×120mm×30m(L×W×H)
Net weight	0.32Kg



Technical indicator

LED information

LED	ON	Blink	OFF
PWR	The device is powered up	—	The device is powered down
PON	Green is registered to the PON system	Green is registering to the PON system	Green is not registered to the PON system
LOS	Device does not receive optical signals	—	Device have received optical signals
WAN	Route WAN connect to internet.	—	Router WAN do not connect to internet.
WiFi(2.4/5.0G)	WiFi turned on	WiFi turn on and with ongoing data transmission	Device is power off or WiFi turned off
PHONE (option)	Device has registered to the soft-switch, but without ongoing data transmission	Phone hooks off or the port is with ongoing data transmission	Device is power off or not registered to the soft-switch
LAN1~LAN2	Port is connected properly	Port is sending or/and receiving data	Port connection exception or not connected NA User is accessing User is logged in Userhas no access



Software function

Management Mode

OAM/OMCI、Telnet、WEB、TR069

Support full management of HGU functions by OLT

Data Service Functions

Full speed non-blocking switching

2K MAC address table

64 full range VLAN ID

Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN 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

WiFi Service Functions

Integrated 802.11b/g/n/ac

Support max 128 users

Authentication : WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)



Software function

POTS Service Function(option)

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.722/G.729, auto-negotiate with call agent

Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length

Support high/low speed fax, bypass fax, and T38 fax

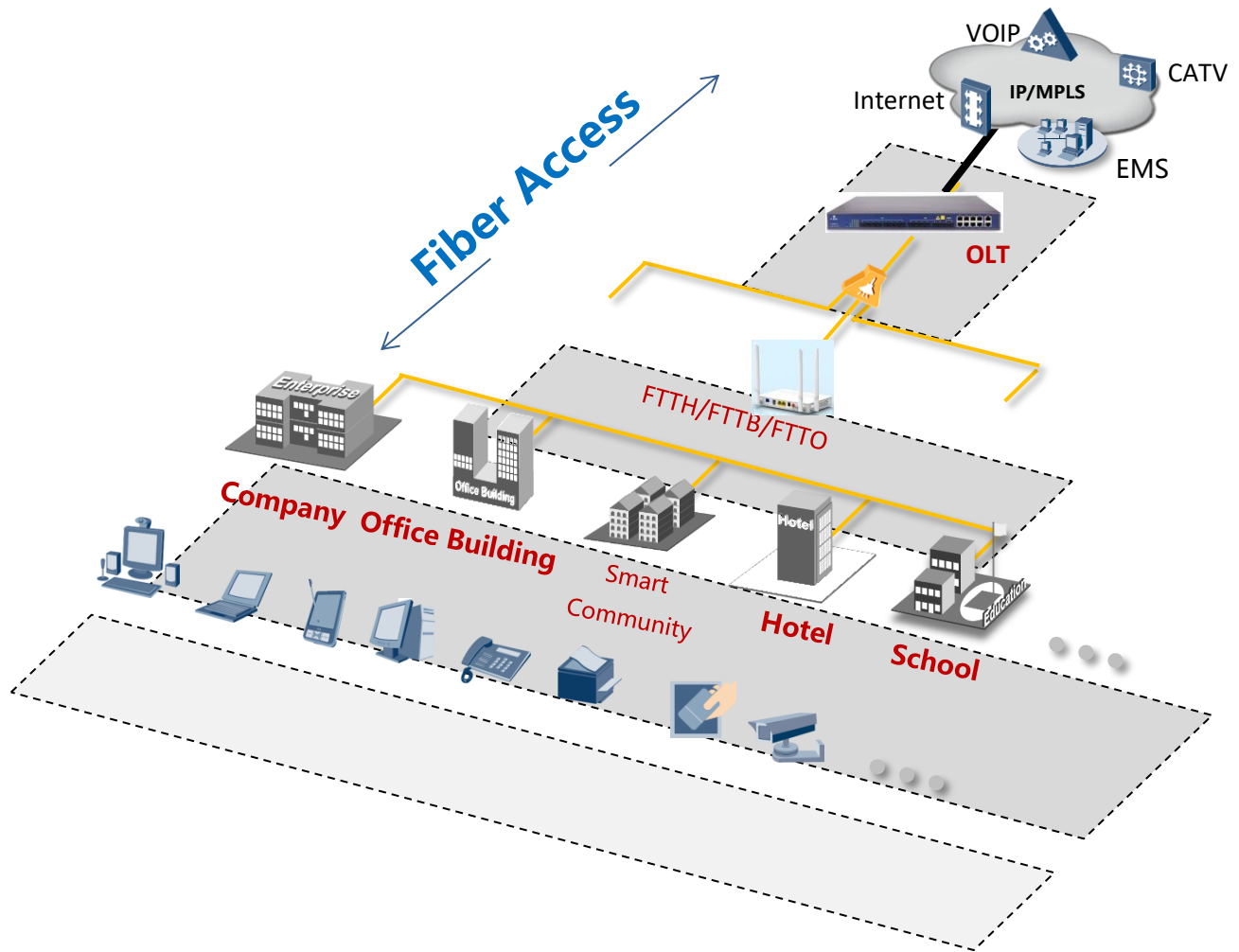
Support high speed MODEM(56Kbps) dial access

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



Typical application diagram



For More Information

Please visit our website www.comcast-sa.com or contact your local sales representative.

Comcast México

Overseas Sales Subsidiary
Cal. Lázaro Cárdenas #1309
Col. Colón industrial CP.44940
Guadalajara, Jalisco
Tel. +52 33 38607059
Info.mx@comcast-sa.com

Comcast Guatemala

Overseas Sales Subsidiary
20 calle 23-70 Zona 10
Guatemala
Tel. +506 4004 1400
Gerente.gua@comcast-sa.com

Comcast Nicaragua

Overseas Sales Subsidiary
3ra. Entrada las Colinas, Embajada
De cuba 1C, Este, Casa #34
Mangua, Nicaragua
Te, +1809 5711033
Admin.nic@comcast-sa.com

Comcast El Salvador

Overseas Sales Subsidiary
51 Av. Norte # 159 entre calle
poniente y Av. Roosevelt
San Salvador, El Salvador
Tel. +503 7950 4882
Info.sv@comcast-sa.com

Comcast Dominican Republic

Overseas Sales Subsidiary
Winston Churchill No. S, Suite 3F,
Distrito Nacional
Santo Domingo, Dominican Republic
Te.+ 1 809 571 1033