

F-782CTW5

CGG-F782CTW5

1xPON+2LAN+1POTS+1USB+WiFi5+CATV HGU

COMCAST GROUP



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Product OverView

2GE+1POTS+WiFi+CATV GPON/EPON HGU WiFi Mesh 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, Wi-Fi EasyMesh, 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.

Product appearance features

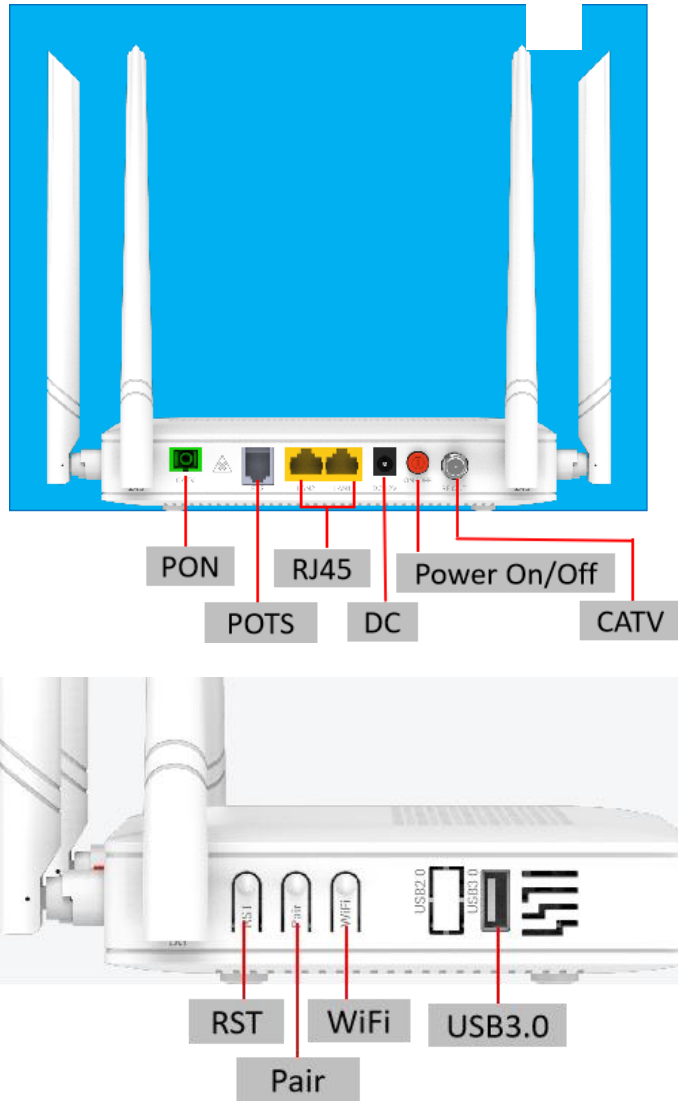


Figure 1 2LAN+1POTS+1USB+WiFi4/5 HGU

Application Chart

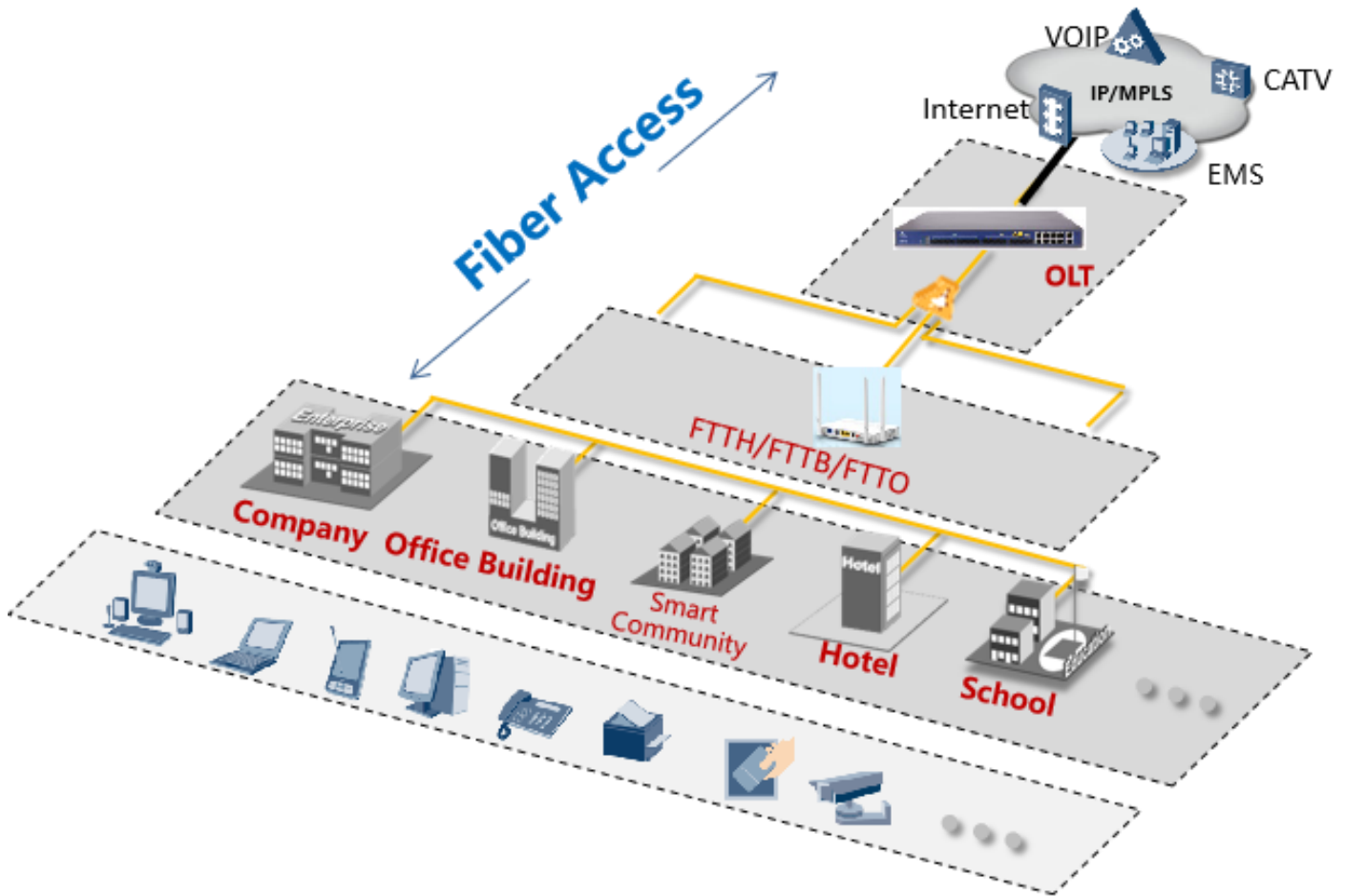


Figure 2 Application Chart

Technical parameters

Technical item	1*xPON+2*GE+1*POTS+WiFi+USB
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*10/100/1000Mbps auto adaptive Ethernet interfaces, Full/Half, RJ45 connector
USB interface	USB 3.0, Transmission Rate: 4.8Gbps
CATV interface	Optical receiving wavelength: $1550 \pm 10\text{nm}$ RF frequency range: $47 \sim 1000\text{MHz}$ Optical power input range: $0 \sim -3\text{dBm}$ RF output impedance: 75Ω RF output level: $50 \sim 60\text{dBuV}$ ($0 \sim -3\text{dBm}$ optical input) MER: $\geq 32\text{dB}$ (-3dBm optical input)
POTS interface	1*RJ11 connectors

	G.711A/G.711U/G.723/G.729 Codec,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 (WiFi 4) 5.0GHz Operating frequency: 5.150-5.825GHz (WiFi 5 wave 2) WiFi:4*4 MIMO,,5dBi antenna, rate up to 1.167Gbps,Multiple SSID TX power: 11n--22dBm/11ac--24dBm
LED	5, For Status of PON/LOS, WiFi,TEL,LAN1,LAN2
Operating Enviroment	Temperature: 0°C~+50°C Humidity: 10%~90% (non-condensing)
Storing Enviroment	Temperature: -30°C~+60°C Humidity: 10%~90% (non-condensing)
Power Supply	DC 12V/1.5A,12W
Dimension	178mm×120mm×30mm(L×W×H)
Net weight	0.28kg

Table 2 Technical parameters

Panel lights

PWR PON LOS LAN1 LAN2 2.4G 5G PHONE CATV USB			
LED	ON	Blink	OFF
PWR	The device is powered up	N/A	The device is powered down
PON	Green is registered to the PON system	Green is registering to the PON system	Device is not registered to the
LOS	Device does not receive optical	N/A	Device have received optical signals
LAN1,LAN2	Port is connected properly	Port is Sending/Receiving Data	The subscriber network cable is not plugged tightly or the port connection
WiFi (2.4G/5Gh)	WiFi Turn On	WiFi Turn On with ongoing data	Devide is Power Off or WiFi Turn Off
PHONE	Device has registered to Soft-switch,No Data	Phone hooks off or the port is with ongoing data	Device is power off or not registered to the Soft-Switch
CATV	1550nm wavelength power of input is in.	1550nm wavelength power of input is too high.	1550nm wavelength power of input is too low or no input.
USB	USB device is connected	Ongoing data transmission	USB device isn't connected

Table 3 Panel lights on

Interface description

Port Type	Function
PON	Connect PON port with internet by SC/APC type, single mode optical fiber cable.
LAN 1/2	Connect device with ethernet port by RJ-45 cat5 cable.
RST Button	Press down reset button and keep about 5seconds to make the device restart and recover from the factory default settings.
Pair Button	Press down WLAN Pair button to begin pairing.
WIFI Button	WLAN on/off.
DC12V	Connect with power adapter.

Table 4 Interface description

Software function

Fuction	Description
Management Mode	OAM/OMCI,Telnet,WEB,TR069,Support full management by OLT
Data Service Functions	<p>Full speed non-blocking switching</p> <p>2K MAC address table</p> <p>64 full range VLAN ID</p> <p>Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc</p> <p>Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc</p> <p>Support auto polarity detection of Ethernet ports (AUTO MDIX)</p> <p>Integrated IEEE802.1p QoS with four level priority queues</p> <p>Support IGMP v1/v2/v3 snooping/proxy and MLD v1/v2 snooping/proxy</p> <p>Support bridge, router and bridge/router mixed mode</p> <p>IP address assignment: dynamic PPPoE/DHCP Client and static IP</p>
WiFi Service Functions	<p>Integrated 802.11b/g/n/ac(WIFI5), support Easymesh protocol.</p> <p>Support max 128 users.</p> <p>Authentication : WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)</p>

	<p>Modulation type: DSSS,CCK and OFDM</p> <p>Encoding scheme: BPSK,QPSK,16QAM and 64QAM</p>
<p>POTS Service Function</p>	<p>SIP protocol(IMS compatible) seamless compatible with all popular call agent</p> <p>Integrate heartbeat function and support active/standby call agent</p> <p>Voice coding: ITU-T G.711/G.722/G.729, auto-negotiate with call agent</p> <p>Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length</p> <p>Support high/low speed fax, bypass fax, and T.38 fax</p> <p>Support high speed MODEM(56Kbps) dial access</p> <p>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</p> <p>Call loss less than 0.01%</p>

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