EOC Slave With 4FE & WIFI

CD5204WL is the EOC slave based on HomePlug AV solution for Ethernet access over coax.　It works together with EOC master which is based on HomePlug AV solution as well to construct a two-layer Ethernet data transmission channel on CATV coax cable, provide the Ethernet access service based on the existing coax cable networking.

CD5204WL is the slave with 4 Ethernet ports and WIFI.

CD5204WL is based the Qualcomm chipset solution，with high anti jamming capability OFDM technology. The 7.5-65MHz low frequency band is used for EOC signals. Built in high isolation filter as CATV RF and EOC signal mixer, the EOC signal and CATV signal in 87~862MHz can run on one cable without interference. The PHY Layer speed is 600Mbps,the MAC Layer throughput is up to 320Mpbs.

Features:

- Based on HomePlug AV solution and Qualcomm chipset
- 7.5-65Mhz frequency for EOC signals., no influence on CATV Service
- PHY Layer speed 600Mbps
- Support data encryption
- 4 100M auto-negotiation Ethernet port
- Support the isolation of slave under one master
- Support Port-based VLAN and 802.1q VLAN
- Support bandwidth limited
- Support QOS configuration based on slave port or VLAN.
- Support broadcast storm control.
- Support data packages count
- Automatically distribute configurations to newly connected slaves, available to use as soon as correctly connected and power on.
- Support WEB,CLI and SNMP management
- Support on-line upgrading

EOC Specification

Item	Parameters	CD5204Wl
Interface & indicator	RF interface	1*TV(RF signal) OUTPUT, metric F connector 1*CABLE(MIX)INPUT, metric F connector
	Ethernet interface	4*10/100M auto-negotiation, RJ45
	Power interface	1*DC12V power supply interface
	LED indicators	1 x power indicator 1 x system indicator 1 x CABLE indicator 1 x WIFI indicator LAN indicator(each Ethernet port has 1 indicator)
Performance parameters	RF parameters	Frequency:7.5-65MHz Output level:110±5dBuv
		Receive sensibility:45dBuv Return loss:>15dB Output impedance:75Ω
	Transmission	PHY Layer:600Mbps Throughput on MAC Layer:320Mbps
	Modulation Mode	OFDM– 2690-carriers 4096/1024/256/64/16/8-QAM, QPSK, BPSK, ROBO
	Working Mode	TDMA/CSMA
	Encryption Mode	AES-128
Standard	EOC Standard	IEEE P1901(Draft) HomePlug AV
	Ethernet Standard	IEEE 802.3, IEEE 802.3x, IEEE 802.3u IEEE802.1P, IEEE802.1Q
Software	Network Management	WEB, CLI, SNMP
	Software Features	VLAN, QOS, Bandwidth Control, Broadcast storm limitation
Physical Features	Power supply & Consumption	Power adapter:12VDC1A Power consumption：<8W
	Dimension	160×120×32mm
	Weight	0.5kg
	Environment Attribute	Work temperature：0～50℃ Stock temperature：-40～85℃ Work humidity：10%～90%, non-condensation Stock humidity：10%～90%, non-condensation

WIFI Specification			
Performance parameters	Operating Mode	Router or bridge	
	Throughput	IEEE 802.11b: 11Mbps IEEE 802.11g: 54 Mbps IEEE 802.11n: 135Mbps	
	Frequency	2.412 ~ 2.472 GHz	
	Channel	13*Channel, configurable to meet the standard of USA, CCanada, Japan and China	
	Modulation	DSSS , CCK and OFDM	
	Coding	BPSK, QPSK, 16QAM and 64QAM	

	RF receive sensitivity	802.11b: -82dBm @ 1 Mbps; -80dBm @ 2 Mbps;
		      -78dBm @ 5.5 Mbps; -76dBm @ 11 Mbps
		802.11g: -82dBm @ 6 Mbps; -81dBm @ 9 Mbps;
		      -79dBm @ 12 Mbps; -77dBm @ 18 Mbps;
		      -74dBm @ 24 Mbps; -70dBm @ 36 Mbps;
		      -66dBm @ 48 Mbps; -65dBm @ 54 Mbps
		802.11n: -65dBm @ 65 MbpsHT40;
		      -61dBm @ 135 MbpsHT40;	

	RF output lever	802.11b: 16.5 ±1dBm
		802.11g: 13 ± 1dBm @ 54 Mbps; 14 ± 1dBm @ 48 Mbps;
		      15 ± 1dBm @ 6 ~ 36 Mbps
		802.11n: 13 ± 1dBm @ 54 Mbps; 14 ± 1dBm @ 48 Mbps;
		      15 ± 1dBm @ 6 ~ 36 Mbps	

	Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)	

FD600-701GAW-HR220 GPON ONU

🞣 Brief Views

FD600-701GAW-HR220 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, WDM and HFC technology. FD600-701GW-HR220 has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the ITU- T G. 984 requirements and have good compatibility with third party manufacturers OLT.

GPON is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. GPON network provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables fiber to the home (FTTH) deployments economically resulting to accelerated growth worldwide.
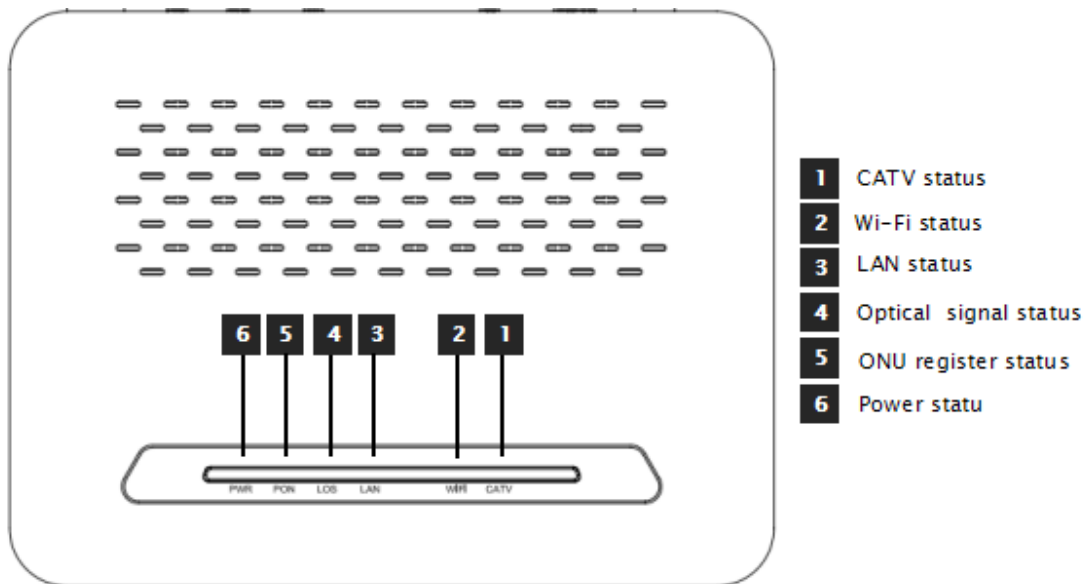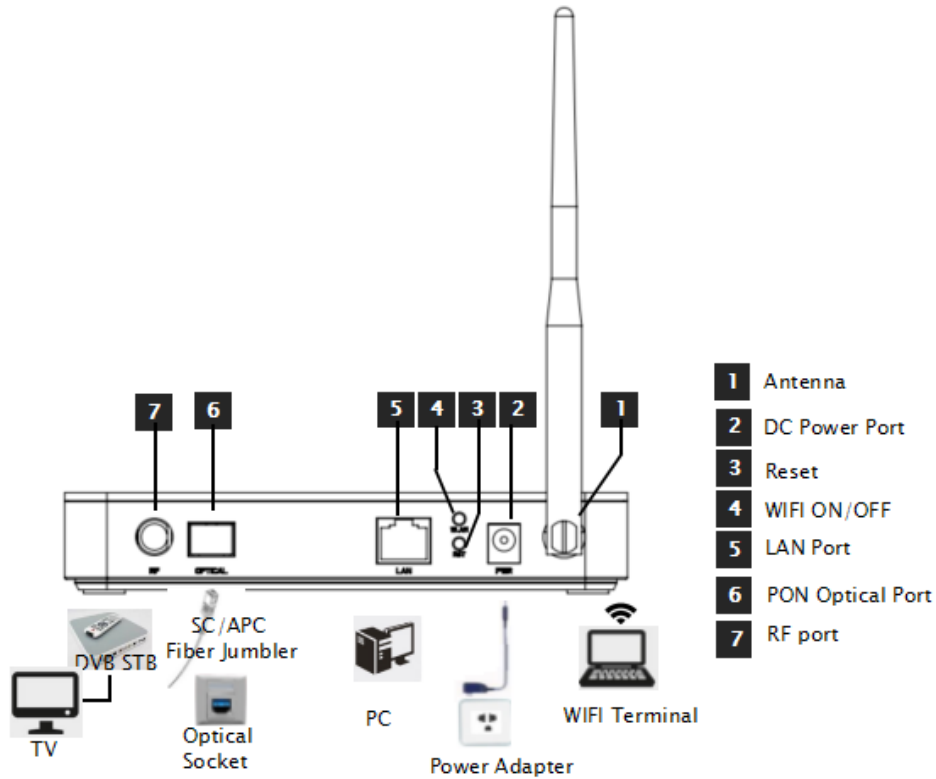
It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

FD600-701GAW-HR220 can integration wireless function with meet 802.11 n/b/g technical standards, It has built-in high gain directional antenna, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

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 ,etc.

- 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 SNMP ,convenient for maintenance

Company Address: Flat 6, Bldg 4,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)

Factory Address: Flat 8, Bldg 2,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)

Tel: +86-755-26014509/4710/4711 Fax:+86-755-26014506

Product interface and LED definitions

1	Antenna
2	DC Power Port
3	Reset
4	WIFI ON/OFF
5	LAN Port
6	PON Optical Port
7	RF port

DVB STB
SC/APC Fiber Jumbler
TV
Optical Socket
PC
Power Adapter
WIFI Terminal

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

PWR PON LOS LAN WIFI CATV

Indicator			Description
1	CATV	CATV status	On：CATV optical normal Off：The CATV signals are not received

2	WIFI	WIFI	Blinking：Data is being transmitted On：Wi-Fi function Opens
3	LAN	LAN port status	On: Ethernet connection is normal Blinking: Data is being transmitted through the Ethernet port Off: Ethernet connection is not set up
4	LOS	EPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
5	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT Off: Failed to register to OLT;
6	PWR	Power status	On: The ONU is power on Off: The ONU is Power off

Specification

Item	Parameter
PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate：2.488Gbps Upstream Data Rate：1.244Gbps SC/APC single mode fiber 28dB Link loss and 20KM distance with 1:128
User Ethernet Interface	1*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

Company Address: Flat 6, Bldg 4,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)

Factory Address: Flat 8, Bldg 2,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)

Tel: +86-755-26014509/4710/4711 Fax:+86-755-26014506

PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm
	Tx Optical Power: 0～5dBm
	Rx Sensitivity: -28dBm
	Saturation Optical Power: -8dBm
	Connector Type: SC
	Optical Fiber: 9/125μm single-mode fiber
Data Transmission Parameter	PON Throughput: Downstream 2.488Gbit/s s; Upstream 1.244Gbit/s
	Ethernet: 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
Shell	Plastic casing
Power	Power supply: DC 12V /1A
	Power consumption: <6.5W
Physical Specifications	Item Dimension：160mm(L)*140mm(W)*29mm(H)
	Item weight：0.2kg
Environmental Specifications	Operating temperature: 0 to 50ºC
	Storage temperature: -40 to 85ºC
	Operating humidity: 10% to 90%(Non-condensing)
	Storage humidity: 10% to 90%(Non-condensing)

Company Address: Flat 6, Bldg 4,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)

Factory Address: Flat 8, Bldg 2,South 2 of Honghualing Industrial Zone,Liuxian Road, Xili Town, Shenzhen, Guangdong, China(518055)

Tel: +86-755-26014509/4710/4711 Fax:+86-755-26014506

CATV

Item	Parameter
Wavelength	1100-1600nm
Optical return loss	>45dB
Input optical power	-18dBm～0dBm
RF frequency	47MHz~1000MHz
RF output lever	78dBuV (@-12~-2dBm@85MHz)
CNR	>41dB (@-10dBm@DS22 Channel)
CSO	>60dBc (@-10dBm@DS22 Channel)
CTB	>60dBc (@-10dBm@DS22 Channel)
RF output return loss	>12dB
RF impedance	75Ohm
AGC function	Support

WIFI Specification (Suitable for the WIFI devices)

Item		Parameter
Performance parameters	Operating Mode	Router or bridge
	WIFI antenna	1 external antennas, 1 built in antennas
	Throughput	IEEE 802.11b: 11Mbps IEEE 802.11g: 54 Mbps IEEE 802.11n: 300Mbps
	Frequency	2.412 ~ 2.472 GHz
	Channel	13*Channel, configurable to meet the standard of USA, Canada, Japan and China
	Modulation	DSSS , CCK and OFDM
	Coding	BPSK, QPSK, 16QAM and 64QAM

	RF receive sensitivity	802.11b: -83dBm @ 1 Mbps; -80dBm @ 2 Mbps; -79dBm @ 5.5 Mbps; -76dBm @ 11 Mbps 802.11g: -85dBm @ 6 Mbps; -84dBm @ 9 Mbps; -82dBm @ 12 Mbps; -80dBm @ 18 Mbps; -77dBm @ 24 Mbps; -73dBm @ 36 Mbps; -69dBm @ 48 Mbps; -68dBm @ 54 Mbps 802.11n 20MHz: -74dBm @ 65 Mbps; -70dBm @ 130 Mbps; 802.11n 40MHz: -70dBm @ 135 Mbps; -67dBm @ 300 Mbps;
	RF output lever	802.11b: 17 ±0.5dBm @11Mbps 802.11g: 15 ±0.5dBm @ 54 Mbps; 16 ±0.5dBm @ 48 Mbps; 17 ± 1dBm @ 6 ~ 36 Mbps 802.11n 20MHz: 14 ± 0.5dBm @ 130 Mbps; 15 ± 0.5dBm @ 78 Mbps; 18 ± 0.5dBm @ 6.5 Mbps 802.11n 40MHz: 14 ± 0.5dBm @ 300 Mbps; 15 ± 0.5dBm @ 162 Mbps; 18 ± 0.5dBm @ 13.5 Mbps
	Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)

Network application

Typical Solution：FTTH, FTTO

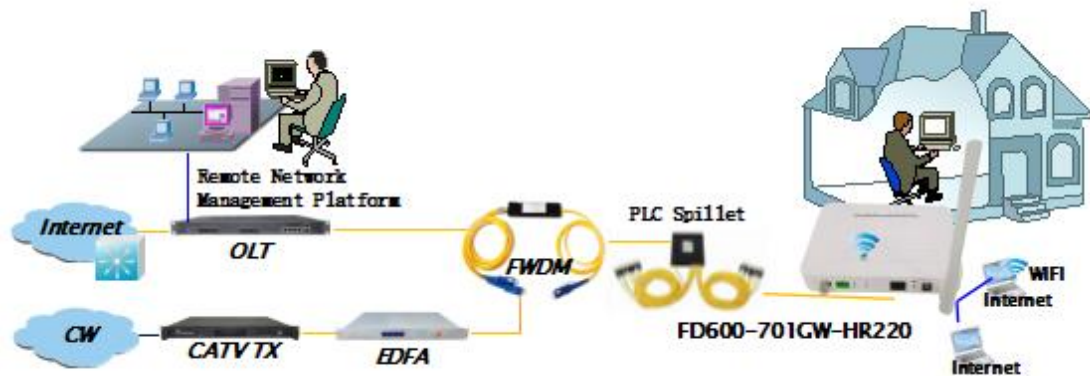Typical Business：INTERNET, IPTV, VOD, IP Camera, WIFI

Figure: FD600-701GAW-HR220 Application Diagram

Ordering Information

Product Name	Product Model	Descriptions
1GE+CATV+WIFI Single fiber	FD600-701GAW-HR220	1*10/100/1000M Ethernet interface, 1 GPON interface, built-in FWDM, Input optical power -18dBm ～ 0dBm,support WiFi function and AGC function, Plastic casing, external power supply adapter

GPON ONU GPNC11C

KT's GPON ONU GPNC02C is mainly designed for broadband application, it supports 1GE+1FE+WIFI antenna + Optical Receiver + WDM all with deliver a complete broadband solution and importantly compatible with all platform OLT, GPNC02C is comply with ITU-T and IEEE recommended standards.

- Supports downstream 2.5Gbps upstream 1.25Gbps PON transmission rates
- Support QoS, SLA, DBA
- 1 core solution, In build WDM
- Support RF Management, turn on/off the RF output
- Support port isolation
- Supports Ethernet loop detection
- Support VLAN

Chipset		Broadcom
GPON Interface	Physical Interface	SC/APC Class B+
Ethernet Interface	QTY	*RJ45
	Interface Data Rate	1x10/100/1000M auto - negotiation
		1x100M auto - negotiation
Optical Receiver	Optical Input Range	18 ~ 0 dBm, AGC - 3 ~ 13 dBm
	RF Output Power	72 dBuV
Wireless Interface	Protocol	IEEE802.11b/g/n, 150Mbps, Dual Antenna: 7dBi
	Operating Mode	Router & Bridge
Management		Web GUI, SNMP, TR069
Standards		ITU T G.984, ITU - T G.988
Network Capability		Supported VLAN TAG/UNTAG 802.1Q
		Port based VLAN, IEEE 802.1Q VLAN
Dimension		140x91x29mm
Power Consumption		<7W
Power Supply		External 12V, 0.7A

SML-702XW-C

Información Básica.

No. de Modelo.	
ONT-1FE-1GE-RF-W	
gestión	
web o software	
recibiendo senstivo	
-26dbm	
longitud de onda de funcionamiento	
up-tx:1310nm, down-rx:1490nm catv:1550nm	
velocidad	
1,25gbps simetría en la parte superior e inferior	
relación de división máxima	
0,086111111	
moq	
1piece	
fuente de alimentación	
12v dcv	

Descripción de producto

ONT-2GF-RFW Es 1GE+1FE+WIFI+CATV XPON(GPON y EPON modo dual) HGU la ONU. Está diseñado para satisfacer las necesidades de servicio triple play de los operadores de red fija o operadores de cable, y ampliamente utilizado en FTTO (oficina), FTTD (escritorio),

FTTH (inicio) acceso de banda ancha y CATV, videovigilancia y otros requisitos. Se basa en la madura GPON y Gigabit tecnología EPON, y tiene una alta relación de rendimiento a los precios, estable y rentable, alta fiabilidad

Fácil administración, la flexibilidad de configuración y de buena calidad de servicio (QoS) garantías. Es totalmente compatible con EPON GPON y los reglamentos técnicos tales como la UIT-T G. 984. X, IEEE802.3ah y requisito técnico de GPON/EPON

El equipo de China Telecom. El modo dual de la ONU puede detectar automáticamente THO y pon el interruptor de modo, puede ser utilizado como GPON EPON o.

También puede ser aplicado a una temperatura ambiente amplio, y también tiene una función de firewall.

Características clave

- HGU ONU, modos de direccionamiento de puentes y se puede establecer
- El modo Dual ONU compatible con los populares EPON y GPON THO
- El apoyo de bucle de detección, IGMP, IGMP snooping
- VLAN 802.1Q QinQ, Cos, DSCP, QoS para prioridad de servicio
- La velocidad del puerto de apoyo, apoyo a la supresión de la tormenta
- Son compatibles con 802.11n 2T2R velocidad de hasta 300Mbps
- Admitir no-auth,   WEP,   WPA-PSK y WPA2-PSK.
- El triple de datos de soluciones, Voip y TV por cable(ancho de banda de RF: 45~1000MHz, la función AGC)
- El apoyo de telnet, CLI, OMCI/OAM y gestión de la Web
- El apoyo de NAT, función de firewall
- Apoyo actualización remota de software

Los elementos	Unidad	Especificaciones
PON LA NORMA.		EPON IEEE802.3ah, GPON ITU-T G. 984. X.
Interfaz óptica		SC/conector PC, 1 GPON/EPON interface(EPON PX20+ y GPON Clase B+)Sensibilidad de recepción: ≤ -28dBmTransmitting potencia óptica: 0~+4 dBmTransmission distancia: 20KM.

La velocidad	Gbps	GPON: 1, 25 Gbps de enlace ascendente, descendente de 2, 5 Gbps; EPON: 1, 25 Gbps simétrico
La longitud de onda	Nm	Tx1310, rx 1490, CATV 1550
Interface	Los datos	1FE 10/100Mbps 1GE 10/100/1000Mbps Adaptación automática de las interfaces Ethernet, full/half duplex, conectores RJ45
	Wireless	Compatible con IEEE802.11b/g/n, a 300Mbps, 2T2R 2 antenas externas
El indicador	LED	PWR, PON LOS, WiFi, GE, la FE, CATV
El estado de funcionamiento	°C.	La temperatura de funcionamiento: -5 ~ +55
El almacenamiento de estado	°C.	Almacenar temp: -30 ~ +60
La humedad	%	10~90(sin condensación)
Fuente de alimentación	V	DC 12V, 0, 5 adaptador
El consumo de energía	W	≤6
La dimensión	Mm	140mm x 116mm x 34mm L x W x H)
peso neto	Kg.	0.3
Los elementos	**Unidad**	**Especificaciones**
Tipo de conector óptico		SC/APC
Rango de potencia óptica de entrada	DBm	-18~ +2
Pérdida de retorno de óptica	DB	≥45
La longitud de onda	Nm	1550 ±10
Conector de salida RF	F	Métrico o imperial
El ancho de banda de RF	MHz	47~1000
Pendiente	DB	47~10030~2 (MHz).
Impedancia RF	Ω.	75
La pérdida de retorno de la salida de RF	DB	≥14 dB
La palanca de salida de RF	DBuV	82(@-7dBm), el 75(@-15dBm)
Intervalo de AGC	DBm	-15~-7/-12~ -4/-10~-2
C/N	DB	≥47 @-7dBm
CTB	DB	≥60 @-7dBm
Pep	DB	≥60 @-7dBm
MER	DB	≥35

Especificación

Artículos técnicos	Descripción
Interfaz PON	1 interfaz EPON, SC monomodo/fibra única, simétrica 1,25 Gbps
Longitud de onda	EPON Tx 1310nm, EPON Rx 1490nm, CATV 1550nm
Interfaz óptica	Conector SC/APC
Sensibilidad RX	< -25dBm @ 1490nm
Interfaz CATV	Tipo SCTE F
WLAN	Cumple con IEEE802.11b/G/n, 300Mbps, 2T2R Una antena interna y una antena externa
Interfaz LAN	1x10/100/1000Mbps + 1x10/100Mbps interfaces Ethernet autoadaptables, Full Duplex / Half Duplex, 1x10/Mbps conectores RJ45
Indicadores	11 indicadores, para el estado de la fuente de alimentación, PON, LAN , POTS y CATV.
Fuente de alimentación DC	+ 12V, adaptador de corriente externo para la corriente de la red,
Consumo energético	≤ 12W
Condición operativa	Temperatura de funcionamiento: -5 ~ + 55 ℃ Humedad de funcionamiento: 10 ~ 90% (sin condensación)
Condición de almacenamiento	Temperatura de almacenamiento: -30 ~ + 60 ℃ Almacenamiento de humedad: 10 ~ 90%(no condensado)
Peso neto	0,45Kg

1. **Características especiales:**

- Plug and play, Detección automática integrada, Configuración automática y tecnología de actualización automática de firmware.
- Cumplimiento total de la especificación IEEE 802.3ah y la función OAM.
- Admite velocidad 802.11n 2T2R de hasta 300Mbps.
- Admite la función No-auth, WEP, 2. 1 y 1. 2 con cifrado AES, TKIP.
- Admite VLAN rica, servidor DHCP y función de multidifusión de espionaje IGMP.
- Ventaja de gestión del tráfico
- Asignación dinámica avanzada de ancho de banda (DBA)
- El Puerto WAN admite el modo de puente/ENRUTADOR.
- La L2 avanzada cuenta con soporte QinQ VLAN y QoS.
- Soporte NAT, función de cortafuegos.
- Ancho de banda de salida de vídeo RF (MHz):45 ~ 1000, rango dinámico AGC (dBm):-6 ~ + 2
- Admite interfaz de administración de consola/Telnet/ NMS para facilitar la operación y el mantenimiento.
- Compatible con tabla de direcciones MAC 2K.
- Totalmente compatible con OLT basado en el chipset Broadcom/PMC/Cortina. Servicio de datos

2. **Funciones:**

1. Conmutación sin bloqueo de velocidad completa.
2. Tabla de direcciones MAC de 2K.
3. 64 ID de VLAN de rango completo.
4. Admite VLAN QinQ, VLAN 1:1, reutilización de VLAN, VLAN troncal, etc.
5. Monitoreo de puertos integrado, duplicación de puertos, limitación de velocidad de puertos, SLA de puertos, etc.
6. Admite Detección automática de polaridad de puertos Ethernet (AUTO MDIX).
7. IEEE802.1p QoS integrado con colas de prioridad de cuatro niveles.
8. Admite IPv4 IGMP snooping e IPv6 MLD snooping.
9. Admite modo mixto Puente, enrutador y puente/ENRUTADOR.

3. **Funciones del servicio WIFI:**

1. Integrado 802.11b/g/n, 300Mbps, 2T2R.
2. Admite 128 conexiones.
3. Admite los protocolos de seguridad WEP y WPA/WPA2.

4. **Funciones de servicio CATV:**

1. Frecuencia RF: 45 ~ 875MHz.
2. Encienda/apague la salida de RF de forma remota.
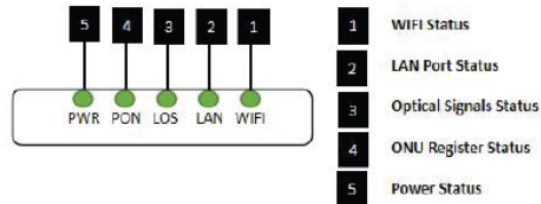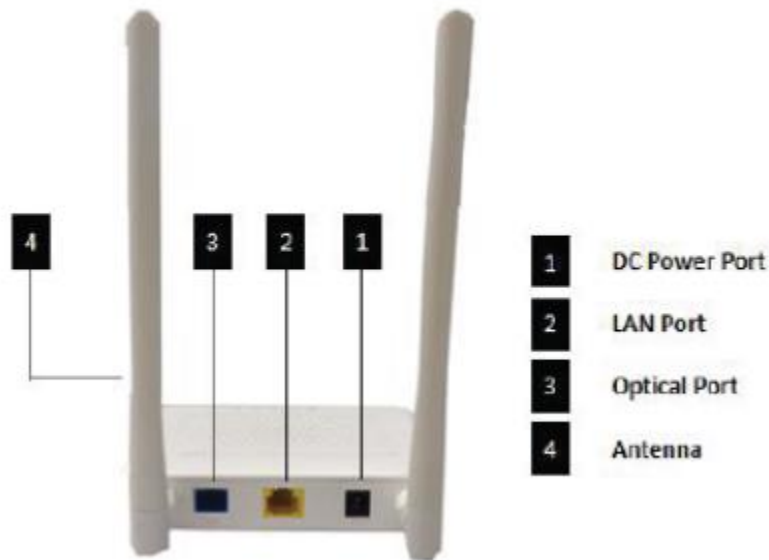
xPON SUX1GW

Brief Views

SUX1GW data type ONU is one of the GPON optical network unit design to meet
the requirement of the broadband access network. It applies in FTTH/FTTO to provide the
data, video service based on the GPON network. GPON is the latest generations of
access network technology. ITU-T G.984 is the standardprotocol of GPON. The GPON
standard differs from other PON standards in that it achieves
higher bandwidth and higher efficiency using larger, variable-length packets. GPONoffers
efficient packaging of user traffic, with frame segmentation allowing higher quality of
service (QOS) for delay-sensitive video communications traffic. GPON networks provides
thereliability and performance expected for business services and provides an attractive
way todeliver residential services. GPON enables Fiber To The Home (FTTH)
deployments
economically resulting to accelerated growth worldwide. have a high reliability and provide
quality of service guarantee, easymanagement, flexible expansion and networking.It fully
meets the ITU-T technical standards
and have good compatibility with third party OLT.
integrates wireless function which meets 802.11 a/b/g/n/ technical
standards. At the same time, it also supports 2.4GHz/5GHz dual-band wireless signal. It
has
the characteristics of strong penetrating power and wide coverage. It can provide users
withmore efficient data transmission security.

Functional Feature
☐ In compliant with ITU - T G.984.standard
☐ Meet 802.11 a/b/g/n/ WIFI technical standard
☐ Support ONU auto-discovery/Link detection/remote upgrade of software
☐ Support Ethernet line performance statistics function
☐ Support OMCI+TR069 management mode
☐ Support VLAN tag/untag
☐ Support multicast Snooping/Proxy
☐ Support DHCP/PPPOE/Static IP internet mode
☐ Support port binding

Support loop-detection function
 Support device-based speed limitation
 Support MAC-address filter and URL access control
 Support AES encryption and decryption
 Support Dynamic Bandwidth Allocation (DBA)
 EMS network management based on SNMP ,convenient for maintenance

PRODUCT INTERFACE AND LED DEFINITIONS

1	DC Power Port
2	LAN Port
3	Optical Port
4	Antenna

1	WIFI Status
2	LAN Port Status
3	Optical Signals Status
4	ONU Register Status
5	Power Status

Indicator			Description
1	WPS	WPS	Blinking: In the connected state, waiting for the device to access; Off: In the not connected state
2	WIFI	WIFI	Blinking：Data is being transmitted On：WIFI function Opens Off：WIFI function Close
3	LAN1-2	LAN Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
4	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
5	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT; Off: In process of registering to OLT;
6	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

Specification

Item		Parameter
Interface	EPON/GPON Interface	SC/UPC single mode single fiber GPON: FSAN G.984.2 standard, Class B+ EPON: 1000BASE-PX20+ symmetric GPON: 2.488Gbps/1.244Gbps downstream/upstream EPON: 1.25Gbps downstream/upstream Wavelength: Transmit: 1310nm Receiver: 1490nm Receiving sensitivity : GPON: -28dBm EPON: -27dBm Saturated power : GPON: -8dBm EPON: -3dBm Transmitting power : GPON: 0.5~5dBm EPON:0~4dBm
	Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance

WIFI Specification

Item		Parameter
Performance parameters	Operating Mode	Router or bridge
	Technical standard	IEEE802.11b/g/n
	Frequency	2.412 ~ 2.472 GHz
	Antenna gain	5dBi
	Support rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 24, 36, 48, 54Mbps 802.11n: max rate 300Mbps
	Channel	2.4GHz Channel: 1,2,3,4,5,6,7,8,9,10,11,12,13
	Modulation mode	11b: DSSS: DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5/11Mbps) 11g: OFDM:BPSK(6/9Mbps), QPSK(12/18Mbps),16QAM(24/36Mbps) Q64QAM(48/54Mbps) 11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM
	Receive sensitivity	11Mbps:≤-90dBm 54 Mbps:≤-76dBm HT20 MCS7:≤-73dBm HT40 MCS7:≤-70dBm
	Transmit power	802.11n: 17dBm
	Encryption mode	AES, TKIP, WPA, WPA2, WPA-PSK/WPA2-PSK

HG102WT

La ONU dual mode HG102WT es una solución de red FTTH completa y flexible que es compatible con las tecnologías GPON y EPON. La ONU cambia automáticamente al modo PON correspondiente al identificar el modo OLT local para completar el acceso adaptativo GPON o EPON.

Características:

- Compatible con las tecnologías GPON y EPON
- Cambio automático de modo PON
- Tecnología WDM de fibra única
- Transmisión de datos y servicio CATV con una sola fibra
- Función inalámbrica 802.11 b/g/n
- Dos antenas omnidireccionales externas de alta ganancia
- Tasa de transmisión inalámbrica de hasta 300 Mbps
- Fuerte poder de penetración y amplia cobertura
- Seguridad de transmisión de datos mejorada

Aplicaciones:

- Redes FTTH

- Transmisión de datos a alta velocidad
- Televisión digital
- Videovigilancia
- Automatización industrial

Ventajas:

- Soluciones de red flexibles y adaptables
- Reducción de costes de instalación y mantenimiento
- Aumento de la eficiencia y el rendimiento

Especificaciones técnicas:

- Longitud de onda de enlace descendente: 1550nm y 1490nm
- Longitud de onda de enlace ascendente: 1310nm
- Tasa de transmisión inalámbrica: hasta 300 Mbps

ZX8202DWT

Especificación

Descripción general del producto

Los dispositivos terminales 2GE + 2,4 GWiFi + 5GWiFi + 1RF GPON/EPON HGU están diseñados para cumplir

FTTH y demanda de servicio triple play de operadores de red fija. Estas cajas se basan en la tecnología Chipset (Realtek) madura, que tiene una alta relación entre rendimiento y precio, y la tecnología de IEEE802. 11b/g/n/AC WiFi, capa 2/3. Admite la gestión completa de dispositivos HGU a través de OLT. Son altamente fiables y fáciles de mantener, con QoS garantizada para diferentes servicios. Y cumplen totalmente con los reglamentos técnicos como IEEE802.3ah> G.984.x y los requisitos técnicos de los equipos GPON (versión V2.0 y superior) de China Telecom.

Características especiales

> Admite la gestión completa de las funciones HGU.
> Plug and play, funciones de detección automática, Configuración automática y actualización automática de firmware, etc.
> Configuración remota OAM/OMCI integrada y función de mantenimiento.
> Admite funciones QinQ VLAN ricas y funciones de multidifusión IGMP Snooping.
> Totalmente compatible con OLT basado en el chipset Broadcom/PMC/Cortina.
> Admite configuración por lotes de una tecla TR069.

> Soporte 802. 11 función WiFi a/b/G/n/AC (2 x 2T2R).
> Compatible con NAT, función Firewall.
> Admite pila dual IPv4 e IPv6.

Artículo técnico	2 GE + 2 4 GWiFi + 5 GWiFi + 1 RF
Interfaz PON	1 puerto G/EPON (EPON PX20 + y GPON Clase B +) Recepción Sensibilidad: <-28dBm Potencia óptica de transmisión: 0 ~ + 4dBm Distancia de transmisión: 20km
Longitud de onda	Tx1310nm,Rx 1490nm
Interfaz óptica	Conector SC/APC
Interfaz LAN	2 interfaces Ethernet autoadaptables de 10/ 100/ 1000Mbps, completo/medio, conector RJ45
Interfaz POTS	1 Conector RJ11 compatible con: códec G.711A/G.711U/G.723/G.729 compatible con: Modo de fax T.30/T.38/G.711, relé DTMF
Interfaz WiFi	Cumple con IEEE802. 11 a/b/g/n/AC 2,4 GHz Frecuencia de funcionamiento: 2.400-2.483GHz 5,0 GHz Frecuencia de funcionamiento: 5. 150-5.825GHz Soporta MIMO,2 x 2T2R, antena externa de 5dBi, tasa de hasta 1. 167Gbps Soporte: SSID múltiple Potencia TX: 11n-22dBm/11ac-24dBm

LED	POTENCIA 、 PON 、 LOS 、 LAN2 、 LAN1 、 2,4G 、 5G 、 FXS 、 RF
Condición operativa	Temperatura: 0 °C ~ + 50 °C Humedad: 1 0% ~ 9 0% (sin condensación)
Condición de almacenamiento	Temperatura: -30 °C ~ + 60 °C Humedad: 1 0% ~ 9 0% (sin condensación)
Fuente de alimentación	DC 12V/1.5A
Fuente de alimentación	<9W
Dimensión	243mm x 151mm x 30mm (LxWxH)
Peso neto	0,32Kg

Función de software

Modo gestión
* OAM/OMCI, WEB,TR069.
* Admite la gestión completa de las funciones HGU.

Funciones de servicio de datos

* Conmutación sin bloqueo de velocidad completa
* Compatible con la tabla de direcciones MAC 2K.
* Compatible con VLAN 4K.
* Compatible con QinQ VLAN, VLAN 1:1, VLAN troncal, etc.
* Monitoreo de puertos integrado, duplicación de puertos, limitación de velocidad de puertos, etc.
* Admite Detección automática de polaridad de puertos Ethernet (AUTO MDIX).
* IEEE802 integrado. 1P QoS con ocho colas de prioridad.
* Admite espionaje IGMP/MLD.
* Soporta SFU, HGU y modo mixto.

Funciones del servicio WiFi

* 802 integrado. 1 1 A/B/g/n/AC
* Soporta máx. 10 SSID.
* Autenticación: WEP/WPA2/WPA2 mixto/WPA3/WPA2 + WPA3 mixto.

* Tipo de modulación: DSSS, CCK y OFDM.
* Esquema de codificación: BPSK, QPSK,16QAM y 64QAM.