



FD600-511GW-HR630 1GE+WIFI GPON ONT



FD600-511GW-HR630 GPON ONT is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data service based on the GPON network.

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 networks 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.

FD600-511GW-HR630 have a high reliability and provide quality of service guarantee casy management, flexible expansion and networking. It's fully meet the ITU-T technical standards and have good compatibility with third party manufacturers OLT.

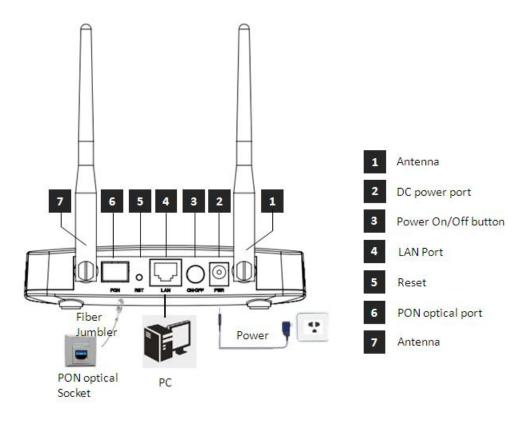
FD600-511GW-HR630 can integration wireless function with meet 802.11 n/b/g technical standards, It has built-in high gain directional antenna, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.



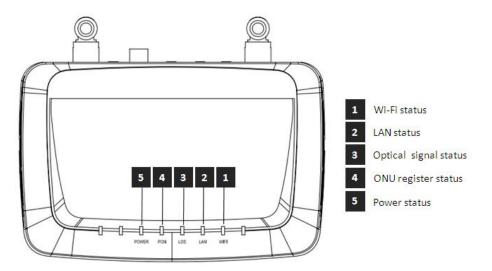
🖊 Functional Feature

- Support port-based rate limitation and bandwidth control;
- In compliant with ITU T G.984 Standard
- Wi-Fi 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

🖊 Product interface and LED definitions (Wi-Fi type example)







Indicator			Description
1	WIFI	WIFI	Blinking: Data is being transmitted On: Wi-Fi function Open Off: Wi-Fi function Close
2	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;
3	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
4	PON	ONT Register	On: Success to register to OLT Blinking: In process of registering to OLT; Off: In process of registering to OLT;
5	PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;

Specification

ltem	Parameter	
	1*GPON port, FSAN G.984.2 standard, Class B+	
	Downstream Data Rate: 2.488Gbps	
PON Interface	Upstream Data Rate: 1.244Gbps	
	SC/PC single mode fiber	
	28dB Link loss and 20KM distance with 1:128	
	1*10/100/1000M auto-negotiation	
Lines Ethernet	Full/half duplex mode	
User Ethernet	RJ45 connector	
Interface	Auto MDI/MDI-X	
	100m distance	
Power Interface	r Interface 12V DC Power supply	



	Wavelength: Tx 1310nm, Rx1490nm		
DON	Tx Optical Power: 0 \sim 5dBm		
PON	Rx Sensitivity: -28dBm		
Optical	Saturation Optical Power: -8dBm		
Parameter	Connector Type: SC		
	Optical Fiber: 9/125µm single-mode fiber		
	PON Throughput: Downstream 2.488Gbit/s s; Upstream		
Data Transmission	1.244Gbit/s		
Parameter	Ethernet: 100Mbps or 1000Mbps		
Parameter	Packet Loss Ratio: <1*10E-12		
	latency: <1.5ms		
	Layer 2 wire speed switching		
	Support VLAN TAG/UNTAG, VLAN conversion		
Business	Support Port-based speed limitation		
Capability	Support Priority classification		
	Support storm control of broadcast		
	Support loop detection		
Network	Support IEEE802.3 QAM, ONU can be remotely managed by OLT		
Management	Standard compliant OMCI interface as defined by ITU-T G.984.4		
Management	Support WEB management		
Management	Status monitor, Configuration management, Alarm management,		
Function	Log management		
Shell	Plastic casing		
Power	<4W, 12V/0.5A power supply adapter		
Physical	Item Dimension: 135mm(L) x90mm(W) x 30mm (H)		
Specifications	Item weight: 0.2kg		
	Operating temperature: 0 to 50°C		
Environmental	Storage temperature: -40 to 85°C		
Specifications	Operating humidity: 10% to 90%(Non-condensing)		
	Storage humidity: 10% to 90% (Non-condensing)		

4 WIFI Specification (Suitable for the WIFI devices)

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

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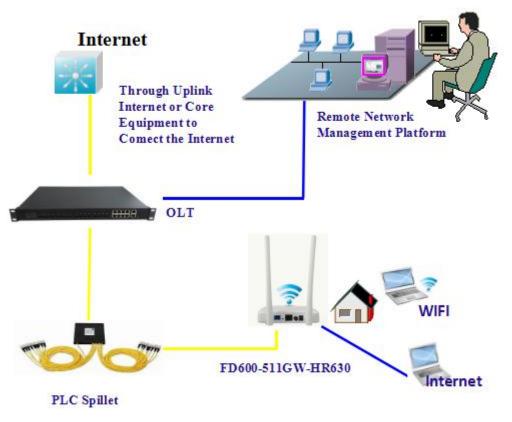


		802.11b:		
	RF receive sensitivity	-83dBm @ 1 Mbps; -80dBm @ 2 Mbps;		
		-79dBm @ 5.5 Mbps; -76dBm @ 11 Mbps		
		802.11g:		
		-85dBm @ 6 Mbps; -84dBm @ 9 Mbps;		
		-82dBm @ 12 Mbps; -80dBm @ 18 Mbps;		
		-77dBm @ 24 Mbps; -73dBm @ 36 Mbps;		
		-69dBm @ 48 Mbps; -68dBm @ 54 Mbps		
		802.11n 20MHz:		
		-74dBm @ 65 Mbps;		
		-70dBm @ 130 Mbps;		
		802.11n 40MHz:		
		-70dBm @ 135 Mbps;		
		-67dBm @ 300 Mbps;		
		802.11b:		
		17 ±0.5dBm @11Mbps		
		802.11g:		
		15 ±0.5dBm @ 54 Mbps; 16 ±0.5dBm @ 48 Mbps;		
	RF output lever	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



FTTH Broadband Access

Figure: FD600-511GW-HR630 Application Diagram

Ordering Information

Product Name	Product Model	Descriptions
1GE+WIFI	FD600-511GW-HR630	1*10/100/1000M Ethernet interface, 1 GPON
		interface, Support 300Mpbs wifi ;plastic casing,
		external power supply adapter