

HV704GH series 4GE+CATV Single Fiber GPON ONT



Brief Views

ONT HV704GH (4GE+CATV) series is a FTTH bandwidth access equipment .Based on mature and stable GPON technology, it has powerful functions with high stability ,QoS guarantee ,comprehensive management and flexible networking construction, etc.ONT HV704GH series is fully compatible with ITU-T G.984 technology standard.

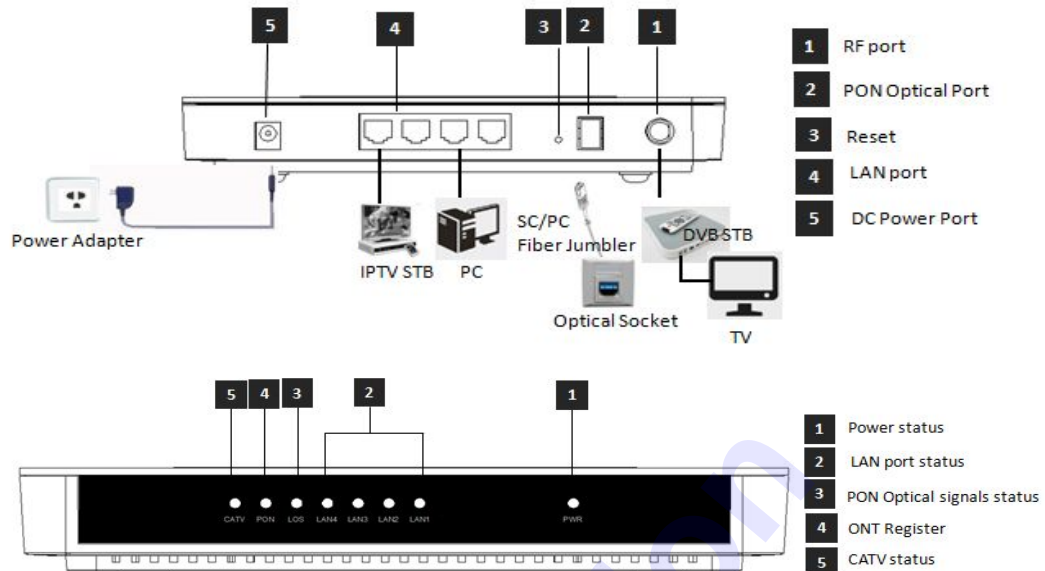
It adopts single fiber WDM technology with downlink wavelength 1490nm, uplink wavelength 1310nm .It only needs one-core fiber to transmit data service.

ONT HV704GH series has 1 PON port , four 10/100/1000BASE-T ports and one CATV output.

Functional Feature

- Full compatible with ITU-T G.984
- Support four GE auto-adapting Ethernet ports
- Support one CATV output
- Support OMCI and TR069 for remote management
- Support Web for local management
- Support Auto-negotiation and MDI/MDIX
- Support the Ethernet interface rate, working mode and flows control
- Support loopback at UNI
- Support packet filtering and anti-illegal message attack protection
- Support performance statistics of Ethernet lines
- Support VLAN tagged label processing, traffic classification and packet filtering, STP/RSTP etc.
- Support DHCP Option60 reporting the location information of the Ethernet interface
- Support PPPoE+ for accurate subscribers identification
- Support IGMP Snooping
- Support AES-128
- CATV support turn on/off RF output remotely

Product interface and LED definitions



Indicator		Description	
1	PWR	Power status	On: The ONT is power on Off: The ONT is Power off
2	LAN1-4	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: Failed to register to OLT;
5	CATV	CATV status	On : CATV optical normal Off : The CATV signals are not received

Specification

Item	Parameter	
Interface	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 RF output Female F-Type Connector

	Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	Power Interface	12V DC Power supply
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx 1490nm Tx Optical Power: 0~4dBm Rx Sensitivity: -30dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125 μ m single-mode fiber
	Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps 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 link detection
Network Management	Management Mode	Standard compliant OMCI interface as defined by ITU-T G.984.4 Support TR069 and WEB management
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Physical Features	Shell	Plastic casing
	Power	External 12VDC/1A power supply adapter Power consumption: <7W
	Dimension and Weight	Item Dimension: 200mm(L) x 140mm(W) x 33mm (H) Item weight: 0.5kg
	Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 5% to 95%(Non-condensing)

CATV

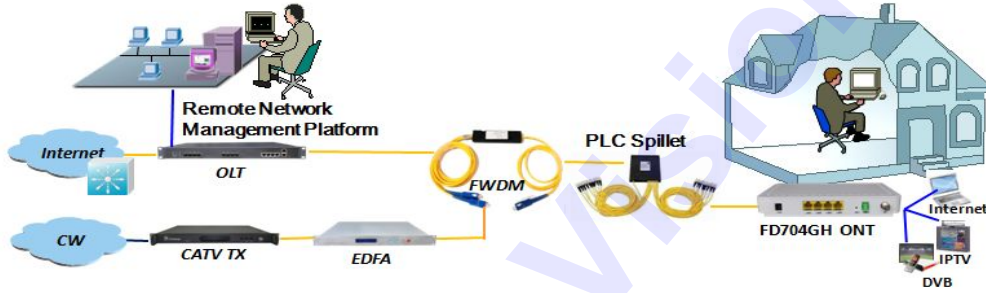
Item	Parameter	Remark
Wavelength	1550 +/- 10nm	
Optical return loss	>45dB	
Input optical power	-15dBm~0dBm	HV704GH
	-18dBm~0dBm	HV704GHA
RF frequency	47MHz~1000MHz	
RF output level	84dBuV (@-5dBm@85MHz)	HV704GH
	81dBuV (@-10dBm@85MHz)	HV704GHL
	78dBuV (@-12~-2dBm@85MHz)	HV704GHA
CNR	>47dB (@-5dBm@ DS22 Channel)	HV704GH
	>41dB (@-10dBm@DS22 Channel)	HV704GHL、HV704GHA

CSO	>60dBc (@-5dBm@ DS22 Channel)	HV704GH
	>60dBc (@-10dBm@DS22 Channel)	HV704GHL、HV704GHA
CTB	>60dBc (@-5dBm@ DS22 Channel)	HV704GH
	>60dBc (@-10dBm@DS22 Channel)	HV704GHL、HV704GHA
RF output return loss	>14dB	HV704GH
	>12dB	HV704GHL、HV704GHA
RF impedance	75Ohm	
AGC function	Support	HV704GHA

Application

- ✧ Typical Solution: FTTH, FTTO, PON+EOC
- ✧ Typical Business: INTERNET, CATV, IPTV, VOD, IP Camera

Network Construction



Ordering information

Product Name	Product Model	Descriptions
4GE +CATV GPON ONT	HV704GH	4*10/100/1000M Ethernet interface, 1 GPON interface, Input optical power -15dBm~0dBm, Plastic casing, external power supply adapter
	HV704GHL	4*10/100/1000M Ethernet interface, 1 GPON interface, Input optical power -18dBm~-9dBm, Plastic casing, external power supply adapter
	HV704GHA	4*10/100/1000M Ethernet interface, 1 GPON interface, Input optical power -18dBm~0dBm, support AGC function, Plastic casing, external power supply adapter