**4GE+ 2POTS + CATV+ Wi-Fi +1USB GPON ONT**



HT3442GVWUC(4GE+2POTS+RF+Wi-Fi+1USB) 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. HT3442GVWUC has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the ITU G. 984 requirements and have good compatibility with third party manufacturers OLT.

It adopts single fiber WDM technology with downlink wavelength 1490nm and 1550nm, uplink wavelength 1310nm. It only needs one-core fiber to transmit data service.

ONT HT3442GVWUC provides 1 PON port , 2 POTS port, 4 10/100/1000M Ethernet adaptive ports, one CATV RF output and one USB port, support double frequency Wi-Fi function.

**PRODUCT FEATURES：**

Full compatible with ITU-T G.984

Support twoPOTS

Support four GE auto-adapting Ethernet ports

Support 802.11a/b/g/n/acWi-Fi access, while support 2.4GHz and 5GHz

Support oneCATV output

Support OMCI and TR069 for remote management

Support Auto-negotiation andMDI/MDIX

Support the Ethernet interface rate, working mode andflows control configuration

Support loopback at UNI

Support packet filtering and illegal message attack protection

Support performance statistics of Ethernet link

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 H.248and SIP protocol

Support IGMP Snooping

Support AES-128

Support Dynamic Bandwidth Allocation (DBA)

**Technical specifications**

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| **Item** | **Parameter** |
| **Interface** | Uplink Interface | 1\*GPON port, FSAN G.984.2 standard, Class B+Downstream Data Rate：2.488GbpsUpstream Data Rate：1.244GbpsSC/PC single mode fiber28dB Link loss and  20KM distance with 1:128 |
| CATV Interface | 1 RF outputF-Type Connector |
| POTS Port | 2\*RJ11 with 3RENMax 1km distanceBalanced Ring, 50V RMS |
| Ethernet Interface | 4\*10/100/1000M auto-negotiationFull/half duplex modeRJ45 connectorAuto MDI/MDI-X100m distance |
| USB interface | 1\*USB 2.0 interfaceTransmission Rate: 480Mbps |
| Power Interface | 12V DC Power supply |
| **Performance Parameters** | PONOpticalParameter | Wavelength: Tx 1310nm, Rx1490nmTx Optical Power: 0.5～5dBmRx Sensitivity: -28dBmSaturation Optical Power: -8dBmConnector Type: SCOptical Fiber: 9/125ɥm single-mode fiber |
| Data TransmissionParameter | PON Throughput: Downstream 2.488Gbit/s s; Upstream 1.244Gbit/sEthernet: 1000MbpsPacket Loss Ratio: <1\*10E-12 latency: <1.5ms |
| Business Capability | Layer 2 wire speed switchingSupport VLAN TAG/UNTAG，VLAN translationSupport Port-based speed limitationSupport Priority classificationSupport storm control of broadcastSupport link detection |
| **Network Management** | Management Mode | Standard compliant OMCI interface as defined by ITU-T G.984.4Support 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 adapterPower consumption: <7W |
| Dimension and Weight | Item Dimension：170mm(L) x 130mm(W) x 30mm (H)Item weight：0.3kg |
| EnvironmentalSpecifications | Operating temperature: 0 to 50ºCStorage temperature: -40 to 85ºCOperating humidity: 10% to 90%(Non-condensing)Storage humidity: 10% to 90%(Non-condensing) |

**CATV Features**

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| --- | --- |
| Wavelength | 1100-1600nm |
| Optical return loss | >45dB |
|  | -15dBm～0dBm | -18dBm～-9dBm | -18dBm～0dBm |
| RF frequency | 47MHz~1000MHz |
| RF output lever | 84dBuV (@-5dBm@85MHz) | 81dBuV(@-10dBm@85MHz ) | 78dBuV(@-12~-2dBm@85MHz) |
| CNR | >47dB (@-5dBm@ DS22 Channel) | >41dB (@-10dBm@DS22 Channel) |  |
| CSO | >60dBc (@-5dBm@ DS22 Channel) | >60dBc (@-10dBm@DS22 Channel) |  |
| CTB | >60dBc (@-5dBm@ DS22 Channel) | >60dBc (@-10dBm@DS22 Channel) |  |
| RF output returnloss | >14dB | >12dB |
| RF impedance | 75Ohm |
| AGC function | / | / | Support |
|  |  |  |  |

**WIFI Features**

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|  | Item | Parameter |
| FeaturesPerformanceparameters |  | Wi-Fi Specification IEEE 802.11n compliant, 2.4 GHz Full IEEE 802.11b/g legacy compatibility with enhanced performanceTwo-stream spatial multiplexing up to300 Mbps PHY data rateSupport multi-SSID（Maximum 4 SSID）Support automatic channel selectionSupport hide SSIDSupport wireless security of 64/128 bit WEP、802.1x、WPAand WPA2 |
| Standard | IEEE802.11b/g/n |
| Frequency | 2.400 ~ 2.500 GHz5GHz |
| Wireless data rate | IEEE 802.11b: 1,2,5.5,11MbpsIEEE 802.11g: 6,9,12,18,24,36,48,54Mbps IEEE 802.11n: up to 200 Mbps |
| Modulation schemes | 802.11g: 64QAM, 16QAM, QPSK, BPSK,DSSS802.11b: CCK,DQPSK, DBPSKHT20: 64 QAM, 16QAM, QPSK, BPSK |
| Channel | 13\*Channel, configurable to meet the standard of USA, Canada,Japan and China |
| RF receive sensitivity | 802.11b: -96dBm @ 1 Mbps; -93dBm @ 2 Mbps;-91dBm @ 5.5 Mbps; -88dBm @ 11 Mbps 802.11g: -90dBm @ 6 Mbps; -89dBm @ 9 Mbps;-89dBm @ 12 Mbps; -867dBm @ 18 Mbps;-83dBm @ 24 Mbps; -79dBm @ 36 Mbps; -75dBm @ 48 Mbps; -75dBm @ 54 Mbps802.11n: -96dBm @ 1 Mbps;-88dBm @ 11 Mbps; -90dBm@6Mbps; -75dBm@54Mbps;-86dBm@m0/20MHz;-69dBm@m15/20MHz; |
| RF Tx Power | •TX power out B mode @ 11 Mbps: 18dBm +/- 2• TX power out G mode @ 54 Mbps: 16dBm +/- 2• TX power 11n mode @ HT20: 16 dBm +/-2 |
| Encryption Mode | 64-bit, 128-bit WEP,AES, TKIP, WPA, WPA2, 802.1x |
| Transmission distance | 100m indoors coverage area 300m outdoors coverage area(varying depending on the actual environment) |

**Typical application**



**Ordering information**

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|  | P/N | Description |
| 4GE + 2POTS + CATV+ Wi-Fi+1 USB GPON ONU | HT3442GVWC | 4\*10/100/1000M Ethernet interface, 1 GPON interface, 2 POTS interface, support Wi-Fi function, Input optical power -15dBm～0dBm, Plastic casing, external power supply adapter |
| HT3442GVWUC-B | 4\*10/100/1000M Ethernet interface, 1 GPON interface, 2 POTS interface, support Wi-Fi function, Input optical power -18dBm～-9dBm, Plastic casing, external power supply adapter |
| HT3442GVWUC-C | 4\*10/100/1000M Ethernet interface, 1 GPON interface, 2 POTS interface, support Wi-Fi function, Input optical power -18dBm~0dBm, Plastic casing, external power supply adapter |