# CLD-1GE+3FE+1POTS+WIFI ONU

## OVERVIEW

CLD-1GE+3FE+1POTS+WIFI GPON ONT 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, voice and video service based on the GPON network.

CLD-1GE+3FE+1POTS+WIFI features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. It has good compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

CLD-1GE+3FE+1POTS+WIFI integrates wireless function which meets 802.11 b/g/n technical standards. It has two external high gain omnidirectional antennas, 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.

Head Office and R&D Lab
Unit 1 / 6 Powells Road
Brookvale, Sydney NSW 2100
AUSTRALIA

Melbourne Office
11 Corporate Drive
Cranbourne West VIC 3977
AUSTRALIA

USA R&D Lab
48233 Warm Springs Blvd.
Fremont CA

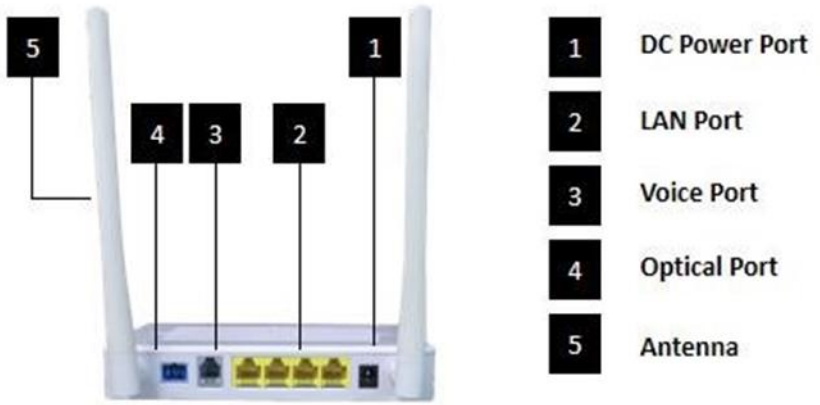
Indonesia Office
West Park B-23
JL. Blvd. Barat BSD City
Pagedangan, Tangerang
Banten 15336

Intl: +61 2 8078 2207 AU Free Call: 1800 876 642
sales@cloudtronics.com.au
www.cloudtronics.com.au

## FEATURES

- In compliant with ITU - T G.984.1/2/3/4 standard
- Meet 802.11 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 H.248 and SIP protocol
- Support AES encryption and decryption
- Support Dynamic Bandwidth Allocation (DBA)
- Support ACL configure data packet filter flexibly
- EMS network management based on SNMP, convenient for maintenance

## PRODUCT INTERFACE AND LED DEFINITIONS

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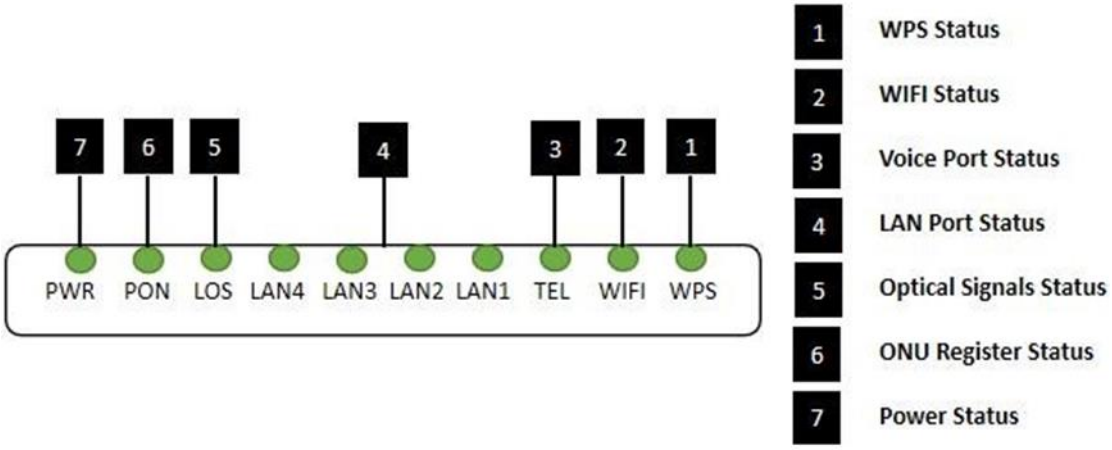


| Indicator | | | Description |
|---|---|---|---|
| **1** | WPS | WPS | Blinking: In the connected state, waiting for the device to access.<br>Off: In the not connected state. |
| **2** | WIFI | WIFI | Blinking: Data is being transmitted.<br>On: WIFI function Opens. |
| **3** | TEL | Telephone port status | On: The connection between the TEL port and the voice server has been set up.<br>Blinking: The voice service of the TEL port is established.<br>Off: The connection between the TEL port and the voice server is not set up. |
| **4** | LAN | LAN port status | On: Ethernet connection is normal.<br>Blinking: Data is being transmitted through the Ethernet port.<br>Off: Ethernet connection is not set up. |
| **5** | LOS | GPON optical signals | On: Optical power lower than receiver sensitivity.<br>Off: Optical in normal |
| **6** | PON | ONT Register | On: Success to register to OLT.<br>Blinking: In process of registering to OLT.<br>Off: In process of registering to OLT. |
| **7** | PWR | Power status | On: The ONT is power on.<br>Off: The ONT is Power off. |

# SPECIFICATION

| Item | Parameters | Specification |
|---|---|---|
| **Interface** | PON Port | 1*GPON port, FSAN G.984.2 standard, Class B+<br>Downstream Data Rate: 2.488Gbps<br>Upstream Data Rate: 1.244Gbps<br>SC/UPC single mode fibre<br>28dB Link loss and20KM distance with 1:128 |
| | Ethernet Port (LAN) | 1*10/100/1000M and 3*10/100M ports<br>Full Duplex / Half-Duplex<br>RJ45, Auto-MDI/MDI-X<br>Transmission Distance 100 Meter |
| | POTS Port | 1*RJ11<br>Max 1km distance<br>Balanced Ring, 50V RMS |
| | Power Supply Port | 12V DC input |
| **Performance Parameters** | PON Optical Parameter | Wavelength: Tx 1310nm, Rx1490nm<br>Tx Optical Power: 0.5～5dBm<br>Rx Sensitivity: -28dBm<br>Saturation Optical Power: -8dBm |
| | Data Transmission Parameter | PON Throughput: Downstream 2.488Gbit/s ; Upstream 1.244Gbit/s<br>Ethernet: 1000Mbps or 100Mbps<br>Packet Loss Ratio: <1*10E-12<br>Latency: <1.5 ms |
| **Management** | Management Mode | OMCI, TR069, WEB, Telnet |
| | Management Function | Status monitor, Configuration management, Alarm management, Log management |
| **Environmental Specifications** | Power | External 12V/0.6A DC power supply adapter<br>Power consumption: <6.5W |
| | Dimension & Weight | Item Dimension： 160mm(L)*139.5mm(W)*28.5mm(H)<br>Item Net Weight: about 300g |
| | Environment | Operating Temperature: 0～40°C<br>Operating Humidity: 10%～90% (non-condensing) |

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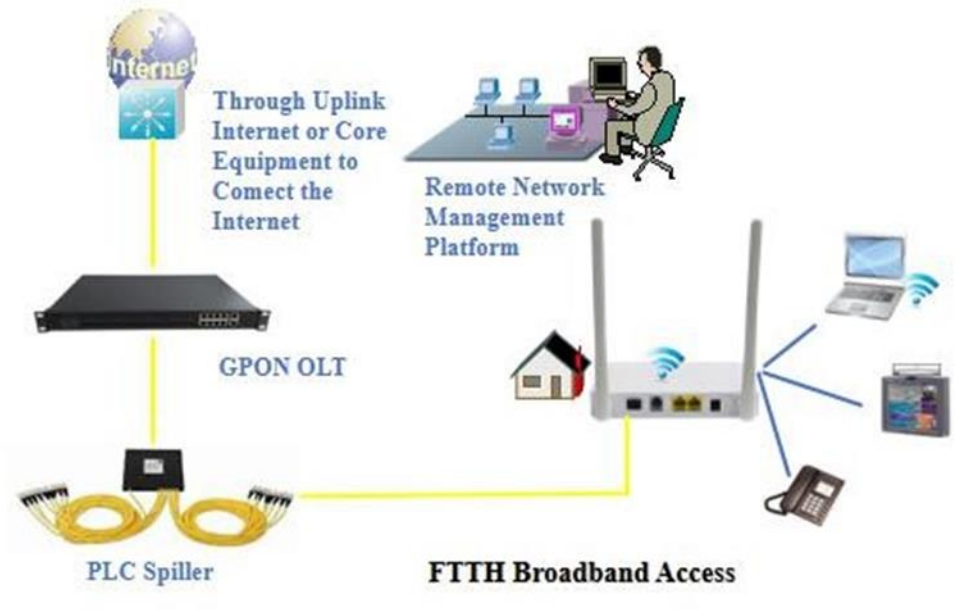
## WIFI FEATURES

| Item | | Parameter |
|---|---|---|
| **Performance Parameters** | Operating Mode | Router or bridge |
| | Antenna Gain | 5dBi |
| | WIFI antenna | 2 external antennas |
| | Throughput | IEEE 802.11b: 11Mbps<br>IEEE 802.11g: 54 Mbps<br>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 |
| | Receive Sensitivity | 802.11b:<br>-83dBm @ 1 Mbps; -79dBm @ 5.5 Mbps;<br>-76dBm @ 11 Mbps<br>802.11g:<br>-85dBm @ 6 Mbps; -77dBm @ 24 Mbps;<br>-68dBm @ 54 Mbps;<br>802.11n HT20 :<br>-85dBm @ MCS0; -73dBm @ MCS4;<br>-67dBm @ MCS7<br>802.11n HT40 :<br>-82dBm @ MCS0; -70dBm @ MCS4;<br>-64dBm @ MCS7 |
| | TX power | 802.11b:<br>19 ± 1dBm @ 1 Mbps 19±1dBm @ 5.5 Mbps;<br>18 ±1dBm @ 11 Mbps;<br>802.11g:<br>18 ± 1dBm @ 6 Mbps 17±1dBm @ 24 Mbps;<br>16 ±1dBm @ 54 Mbps;<br>802.11n HT20:<br>17 ± 1dBm @ MCS0; 16 ± 1dBm @ MCS4 ;<br>15 ± 1dBm @ MCS7<br>802.11n HT40:<br>17 ± 1dBm @ MCS0; 16 ± 1dBm @ MCS4 ;<br>15 ± 1dBm @ MCS7 |
| | Encryption Mode | 802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK) |

# NETWORK APPLICATION

- Solution：FTTH, FTTO
- Business：Broadband Internet, Voice, IPTV, WIFI

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