



## V2801D-1GT1

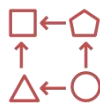
XPON+1GE+CATV ONT



### Key Features:



High Performance Solution



XPON Dual Mode  
Automatically Access to  
EPON/GPON



Routing & Bridging Mode



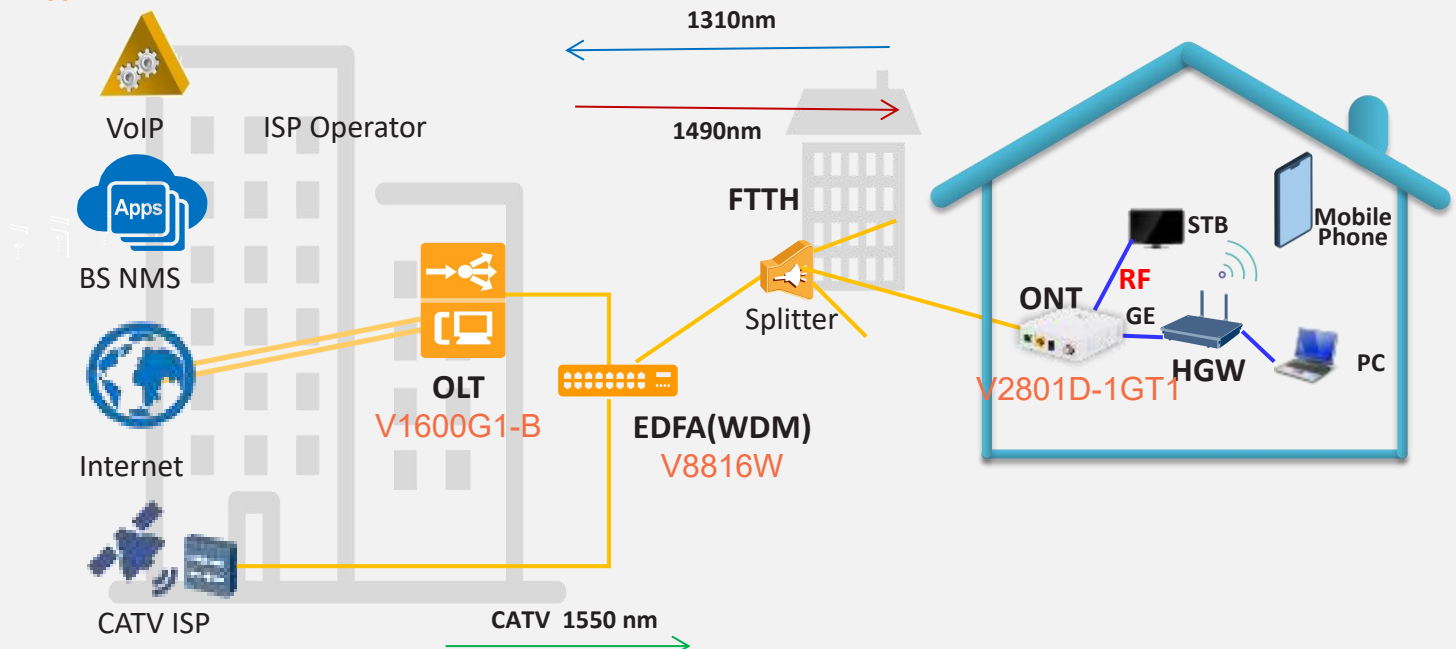
Remote Control  
CATV(with AGC) on/off

### Introduction:

V2801D-1GT1 (XPON 1GE+CATV ONT) is specially designed to meet the FTTO (office), FTTD (desktop), FTTH (home), TV and other needs of telecom operators. The ONT is based on a high-performance chip solution, supports dual-mode (EPON and GPON), and also supports Layer 2/Layer 3 functions, providing data services for carrier-grade FTTH applications.

The ONT has high reliability and can be used in wide temperature environments. It also has powerful firewall functions and is easy to manage and maintain. It can provide QoS guarantee for different services. It conforms to international technical standards such as IEEE802.3ah and ITU-T G.984.

### Application Chart:



## ○ Hardware Parameter

|                     |                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Dimension           | 100mm×92mm×30mm (L×W×H)                                                                                                                 |
| Net weight          | 140g                                                                                                                                    |
| Operating condition | <ul style="list-style-type: none"> <li>• Operating temp: -10 ~ +55°C</li> <li>• Operating humidity: 5 ~ 95% (non-condensing)</li> </ul> |
| Storing condition   | <ul style="list-style-type: none"> <li>• Storing temp: -40 ~ +70°C</li> <li>• Storing humidity: 5 ~ 95% (non-condensing)</li> </ul>     |
| Power adapter       | DC 12V/0.5A, external AC-DC power adaptor                                                                                               |
| Power supply        | ≤4.2W                                                                                                                                   |
| Interfaces          | 1GE+CATV                                                                                                                                |
| Indicators          | POWER, LOS, PON, LAN, CATV                                                                                                              |

## ○ Interface Parameter

|                |                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PON interface  | <ul style="list-style-type: none"> <li>• 1XPON port(EPON PX20+ and GPON Class B+)</li> <li>• SC single mode, SC/APC connector</li> <li>• TX optical power: 0~+4dBm</li> <li>• RX sensitivity: -27dBm</li> <li>• Overload optical power: -3dBm(EPON) or -8dBm(GPON)</li> <li>• Transmission distance: 20KM</li> <li>• Wavelength: TX 1310nm, RX1490nm, CATV 1550nm</li> </ul> |
| LAN interface  | 1*GE Auto-negotiation RJ45 ports                                                                                                                                                                                                                                                                                                                                             |
| CATV interface | <ul style="list-style-type: none"> <li>• RF Optical power : +2~-18dBm</li> <li>• Optical receiving wavelength: 1550±10nm</li> <li>• RF frequency range: 47~1000MHz</li> <li>• RF output impedance: 75Ω</li> <li>• RF output level: ≥ 70dBuV(0~-15dBm)</li> <li>• AGC range: 0~-15dBm</li> <li>• MER: ≥32dB(-14dBm optical input)\</li> </ul>                                 |

## ○ Function Data

|                       |                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| PON mode              | XPON Dual Mode                                                                                                               |
| Uplink Mode           | Bridging and Routing Mode<br>Well connect with OLTs of mainstream                                                            |
| CATV                  | Support CATV Remote management                                                                                               |
| Standard              | <ul style="list-style-type: none"> <li>• Support CTC OAM 2.1 and 3.0</li> <li>• Support ITUT984.x OMCI</li> </ul>            |
| Layer2                | <ul style="list-style-type: none"> <li>• 802.1D&amp;802.1ad bridging</li> <li>• 802.1p CoS</li> <li>• 802.1Q VLAN</li> </ul> |
| Layer3                | <ul style="list-style-type: none"> <li>• IPv4</li> <li>• DHCP Client/Server</li> <li>• PPPoE, NAT, DMZ, DDNS</li> </ul>      |
| Multicast             | • IGMP v2/v3, IGMP snooping                                                                                                  |
| Security and Firewall | <ul style="list-style-type: none"> <li>• Prevent Rogue ONU</li> <li>• DDOS, Filtering Based on ACL/MAC/URL</li> </ul>        |
| O&M                   | Support EMS\WEB\Telnet\CLI and unified network management of VSOL OLT                                                        |

### Ordering Information:

| Product Name | Product Description | Accessories                     |
|--------------|---------------------|---------------------------------|
| V2801D-1GT1  | 1GE+CATV(AGC)       | AC-DC power adaptor: DC12V/0.5A |



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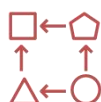
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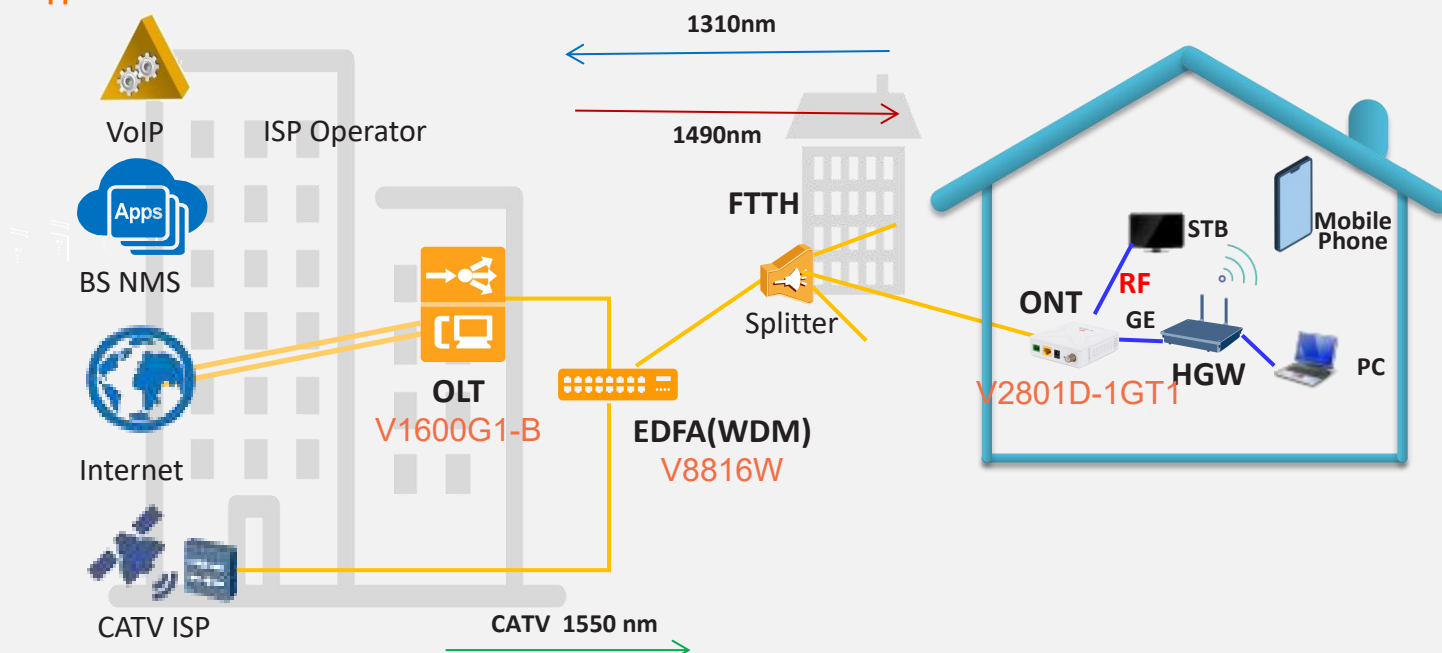
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| LAN interface  | 1*GE Auto-negotiation RJ45 ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CATV interface | <ul style="list-style-type: none"> <li>• Optical receiving wavelength: 1550±10nm</li> <li>• Optical input range: +2~-18dBm</li> <li>• Optical reflection loss: ≥40dB</li> <li>• RF frequency range: 47~1000MHz</li> <li>• RF output impedance: 75Ω</li> <li>• RF output level and AGC range: <ul style="list-style-type: none"> <li>≥81±2dBuv@+1~-10dBm</li> <li>≥79±2dBuv@ 0~-11dBm</li> <li>≥77±2dBuv@-1~-12dBm</li> <li>≥75±2dBuv@-2~-13dBm</li> <li>≥73±2dBuv@-3~-14dBm</li> <li>≥71±2dBuv@-4~-15dBm</li> </ul> </li> <li>• MER: ≥32dB(-14dBm optical input)</li> </ul> |

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