



## V2801SD-1GPD

1\*XPON+1GE+POE(PD) ONT



### Key Features:



XPON Dual Mode  
Plug&Play



Detecting  
Rogue ONU



Wide Working Temp  
-10°C~+55°C



POE(PD)  
Power Supply

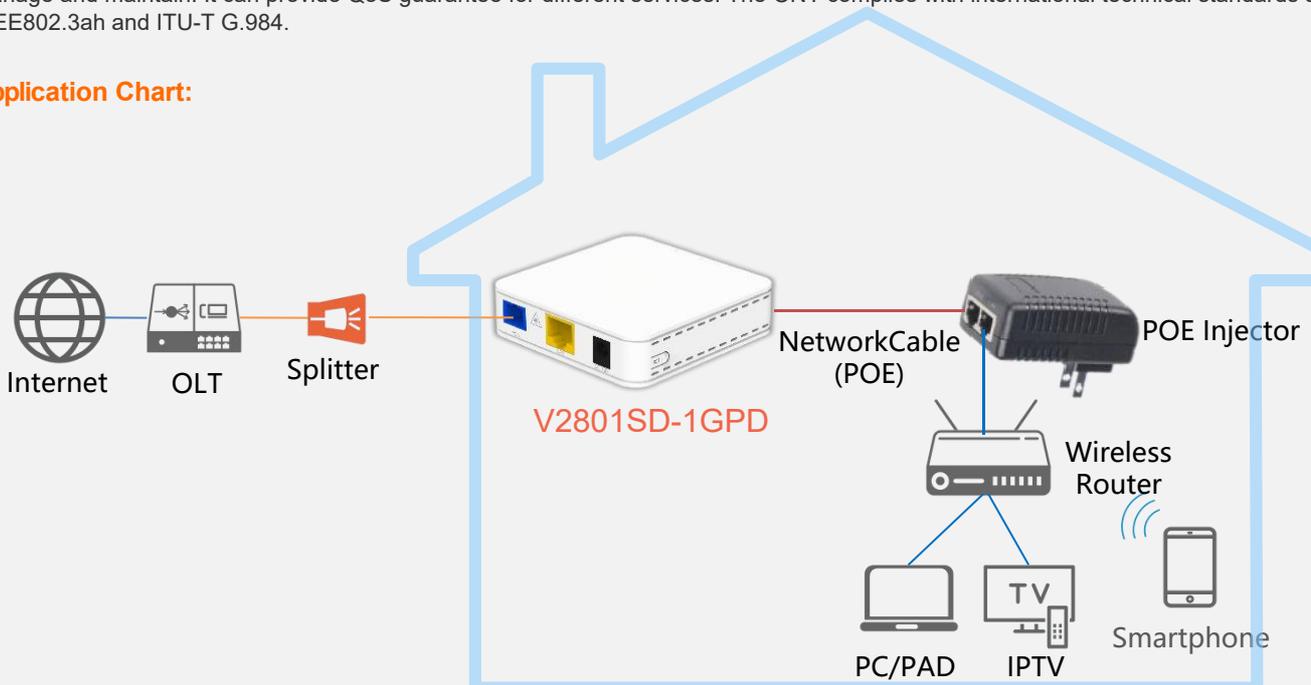
### Introduction:

V2801SD-1GPD (XPON 1GE POE(PD) ONU) is specially designed to meet the access requirements of telecom operators such as FTTH and SOHO. The ONU is based on high-performance chip technology solutions, and supports Layer 2/Layer 3 functions, providing data services for carrier-grade FTTH applications.

V2801SD-1GPD supports Reverse POE function, which can be deployed in some application scenarios where it is inconvenient to obtain power. We can supply power to the V2801SD-1GPD through the user-end device.

The ONT has high reliability and can be applied to a wide temperature environment; and has a powerful firewall function, which is easy to manage and maintain. It can provide QoS guarantee for different services. The ONT complies with international technical standards such as IEEE802.3ah and ITU-T G.984.

### Application Chart:



## ○ Hardware Parameter

Dimension	82mm×82mm×25mm (L×W×H)
Net weight	0.085Kg
Operating condition	<ul style="list-style-type: none"> <li>Operating temp: -10°C~+55°C</li> <li>Operating humidity:5~95% (non-condensing)</li> </ul>
Storing condition	<ul style="list-style-type: none"> <li>Storing temp: -40°C~+70°C</li> <li>Storing humidity: 5 ~ 95% (non-condensing)</li> </ul>
Power adapter	DC 12V/0.5A, external AC-DC power adaptor
POE PWR supply	POE(PD) DC +12 ~ +24V
Interfaces	1GE
Indicators	SYS, REG, LINK/CT

## ○ Interface Parameter

PON interface	<ul style="list-style-type: none"> <li>1XPON port(EPON PX20+ &amp; GPON Class B+)</li> <li>SC single mode, SC/UPC 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</li> </ul>
LAN interface	<ul style="list-style-type: none"> <li>1*GE,Auto-negotiation, RJ45 connectors</li> <li>POE 12V~24V DC</li> </ul>

## ○ Software Key Feature

PON mode	XPON Dual mode , Can access to mainstream EPON/GPON OLTs.
Uplink Mode	Bridging mode and Routing mode.
Smart O&M	Rogue-ONU detection and Hardware Dying Gasp.
Firewall	DDOS, Filtering Based on ACL/MAC/URL.

## ○ Software Parameter

Basic	<ul style="list-style-type: none"> <li>Support MPCP discover&amp;register</li> <li>Support authentication Mac/Loid/Mac+Loid</li> <li>Support Triple Churning</li> <li>Support DBA bandwidth</li> <li>Support auto-detecting, auto-configuration, and auto firmware upgrade</li> <li>Support authentication SN/Psw/Loid/Loid+Psw</li> </ul>
Alarm	<ul style="list-style-type: none"> <li>Support Dying Gasp</li> <li>Support Port Loop Detect</li> <li>Support Eth Port Los</li> </ul>
LAN	<ul style="list-style-type: none"> <li>Support Port rate limiting</li> <li>Support Loop detection</li> <li>Support Flow control</li> <li>Support Storm control</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>Support VLAN tag mode</li> <li>Support VLAN transparent mode</li> <li>Support VLAN trunk mode(max 8 vlans)</li> <li>Support VLAN 1:1 translation mode(≤8 vlans)</li> <li>Auto VLAN detection</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>Support IGMPv1/v2</li> <li>Support IGMP Snooping</li> <li>Max Multicast vlan 8</li> <li>Max Multicast Group 64</li> </ul>
QoS	<ul style="list-style-type: none"> <li>Support 4 queues</li> <li>Support SP and WRR</li> <li>Support 802.1P</li> </ul>
L3	<ul style="list-style-type: none"> <li>Support IPv4</li> <li>Support DHCP/PPPOE/Static IP</li> <li>Support Static route</li> <li>Support NAT</li> </ul>
O&M	<ul style="list-style-type: none"> <li>Support CTC OAM 2.0 and 2.1</li> <li>Support ITUT984.x OMCI</li> <li>Support EMS\TR069\WEB\TELNET\CLI</li> </ul>

Product Name	Product Description	Accessories
V2801SD-1GPD	1GE+Reverse POE	AC-DC power adaptor: DC12V/0.5A