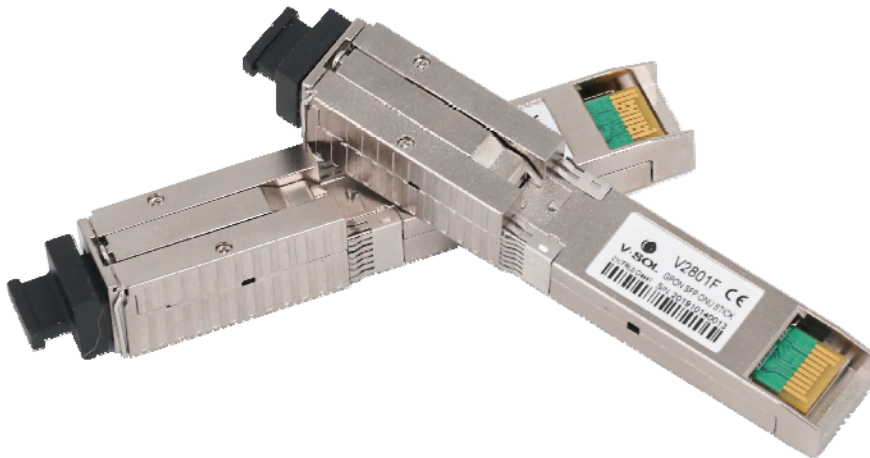




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## V2801F

1\*XPON+1\*GE(SFP) SFP ONT

### Key Features:



XPON Auto-Adaptive EPON/GPON mode



Configuration Free, Plug&Play, Easy to Use



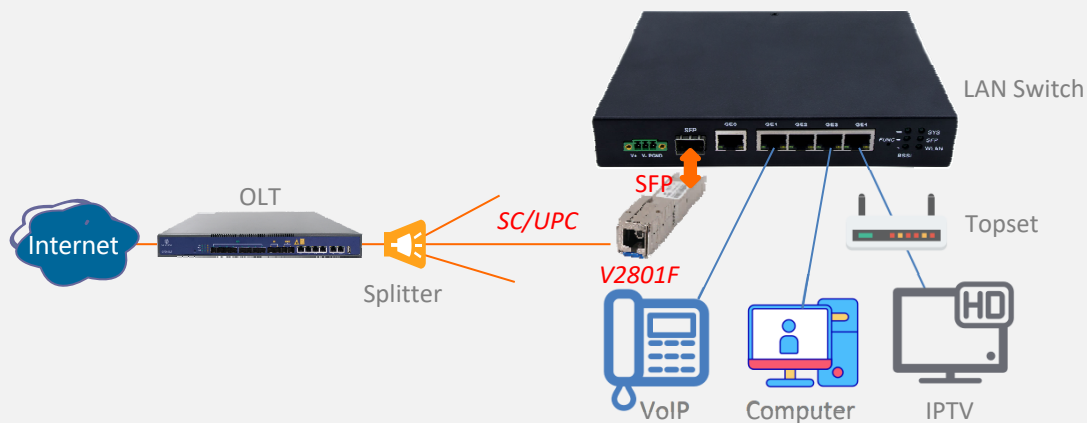
Bridge Mode

### Introduction:

The V2801F XPON SFP ONT is a high performance module for single fiber communications using a 1310nm burst-mode transmitter and a 1490nm continuous-mode receiver. It is used in the optical network terminal (ONT) for GPON ONU Class B+ applications with Mac inside.

The SFP Stick ONT is based on the mature Gigabit GPON/EPON technology, highly reliable and easy to maintain. And it is fully compliant with technical regulations such as ITU-T G.984.x and IEEE802.3ah.

### Application Chart:



Specification

○ Hardware Parameter	
Dimension	14.1mm×79mm×13.6mm(H×W×D)
Net weight	35g
Operating condition	Temperature: 0℃～50℃ Humidity: 10%～90% (non-condensing)
Storing condition	Temperature : -30℃～60℃ Humidity : 10%～90% (non-condensing)
Power supply	DC3.3V
Power consumption	≤4W

○ Interface Parameter	
PON interface	<ul style="list-style-type: none"><li>• 1 SC/UPC connector, PX20+ and Class B+</li><li>• Receiving sensitivity: ≤-28dBm</li><li>• Transmitting optical power: 0～+4dBm</li><li>• Transmission distance: 20KM</li></ul>
Wavelength	Tx-1310nm, Rx-1490nm
Optical interface	SC/UPC connector
LAN interface	1xGE Ethernet interfaces, SFP connector

Pin Description

PIN	Name	Description	Notes
1	VeeT	Transmitter Ground	1
2	Tx-Fault	Transmitter Fault Indication, Normal “0”,Fault: Logic “1” output , LVTTTL	2
3	Tx-Disable	TX Disable; turns off Tx laser	3
4	Mod-Def(2)	SDA I2C Data line	2
5	Mod-Def(1)	SCL I2C Clock line	2
6	Mod-Def(0)	Module Absent, connected to VeeR	2
7	Rate Select	For Dying Gasp detect, input low active	
8	LOS	Loss of Signal	2
9	VeeR	Receiver Ground	1
10	VeeR	Receiver Ground	1

Notes:

- 1. Module circuit ground is isolated from module chassis ground within the module.
- 2. The pins shall be pulled up with 4.7K-10KΩ to a voltage between 3.13V and 3.47V on host board.
- 3. The pin is pulled up to VccT with a 4.7K-10KΩ resistor in the module.

○ Function Data	
Satisfactory standard	<ul style="list-style-type: none"><li>• Meet IEEE802.3ah standard</li><li>• Meet ITU-T G.984.x</li><li>• Meet China's CTC3.0 standards</li></ul>
SFU/ONU	<ul style="list-style-type: none"><li>• Bridging mode</li><li>• Well connect with mainstream OLT</li></ul>
L2	<ul style="list-style-type: none"><li>• 802.1D&amp;802.1ad bridging</li><li>• 802.1p CoS</li></ul>
L3	<ul style="list-style-type: none"><li>• IPv4</li><li>• Forwarding PPPoE package</li></ul>
Multicast	<ul style="list-style-type: none"><li>• Forwarding IGMPv2/v3 package</li></ul>

PIN	Name	Description	Notes
11	VeeR	Receiver Ground	1
12	RD-	Inv. Received Data Output	
13	RD+	Received Data Output	
14	VeeR	Receiver Ground	1
15	VccR	Receiver Power	1
16	VccT	Transmitter Power	
17	VeeT	Transmitter Ground	1
18	TD+	Transmit Data In	
19	TD-	Inv.Transmit Data In	
20	VeeT	Transmitter Ground	1

Product Name	Product Description	Accessories
V2801F	1GE(SFP)	NA