

ZISA OP151S

1*XPON+1*GE(SFP) ONU Stick SFP



Product Overview

The OP151S XPON ONU Stick is a high performance module for single fiber communications using a 1310nm burstmode 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 ONU 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.

Main Feature

- ◇ XPON Auto-Adaptive EPON/GPON mode
- ◇ Configuration Free, Plug&Play, Easy to Use

Specifications

Hardware Parameter		Function Data	
Dimension	14.1mm×79mm×13.6mm(H×W×D)	Satisfactory standard	• Meet IEEE802.3ah standard
Net weight	35g		• Meet ITU-T G.984.x
Operating condition	Temperature: 0℃ ~ 50℃		• Meet China's CTC3.0 standards
	Humidity: 10% ~ 90% (non-condensing)	SFU ONU	• Bridging mode
Storing condition	Temperature : -30℃ ~ 60℃		• Well connect with mainstream OLT
	Humidity : 10% ~ 90% (non-condensing)	L2	• 802.1D&802.1ad bridging
Power supply	DC3.3V		• 802.1p CoS
Power consumption	≤4W	L3	• IPv4
			• Forwarding PPPoE package
		Multicast	• Forwarding IGMPv2/v3 package

Interface Parameter

PON interface	• 1 SC/UPC connector, PX20+ and Class B+
	• Receiving sensitivity: $\leq -28\text{dBm}$
	• Transmitting optical power: $0 \sim +4\text{dBm}$
	• Transmission distance: 20KM

Wavelength	Tx-1310nm, Rx-1490nm
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Optical interface	SC/UPC connector
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LAN interface	1xGE Ethernet interfaces, SFP connector
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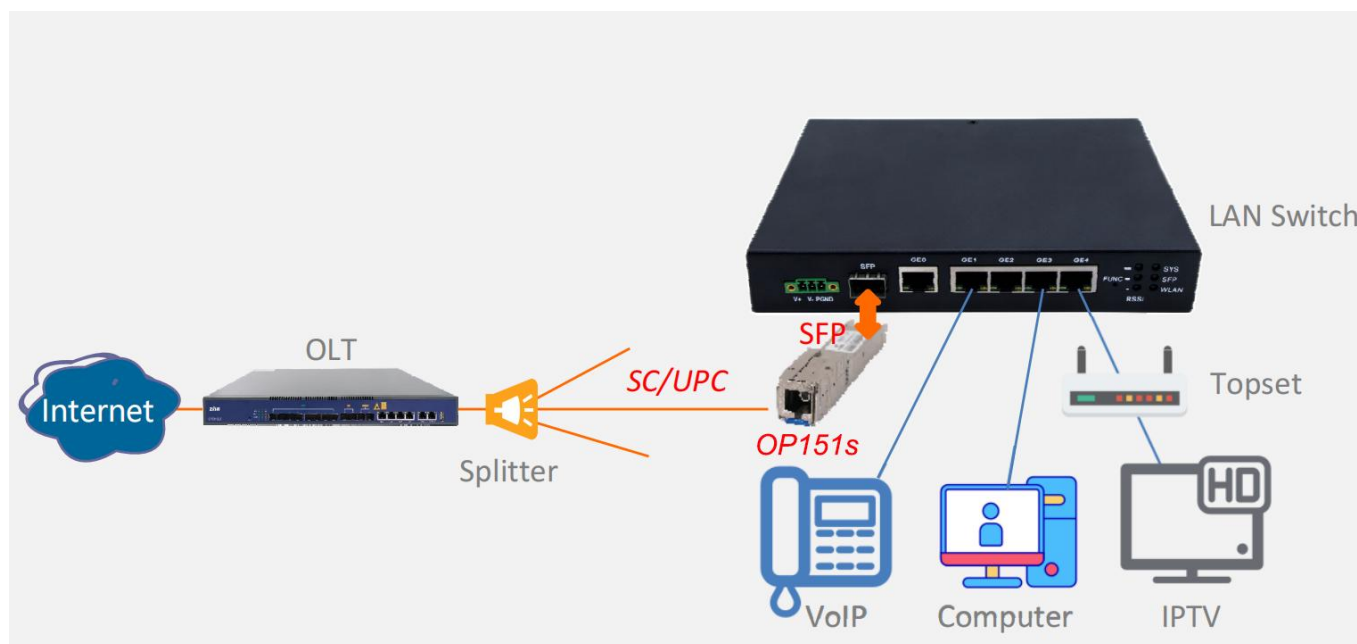
Pin Description

PIN	Name	Description	Notes	PIN	Name	Description	Notes
1	VeeT	Transmitter Ground	1	11	VeeR	Receiver Ground	1
2	Tx-Fault	Transmitter Fault Indication, Normal "0", Fault : Logic "1" output , LVTTTL	2	12	RD-	Inv. Received Data Output	
3	Tx-Disable	TX Disable; turns off Tx laser	3	13	RD+	Received Data Output	
4	Mod-Def(2)	SDA I2C Data line	2	14	VeeR	Receiver Ground	1
5	Mod-Def(1)	SCL I2C Clock line	2	15	VccR	Receiver Power	1
6	Mod-Def(0)	Module Absent, connected to VeeR	2	16	VccT	Transmitter Power	
7	Rate Select	For Dying Gasp detect, input low active		17	VeeT	Transmitter Ground	1
8	LOS	Loss of Signal	2	18	TD+	Transmit Data In	
9	VeeR	Receiver Ground	1	19	TD-	Inv. Transmit Data In	
10	VeeR	Receiver Ground	1	20	VeeT	Transmitter 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-10K Ω to a voltage between 3.13V and 3.47V on host board.
3. The pin is pulled up to VccT with a 4.7K-10K Ω resistor in the module.

Application Scenarios



Ordering Information

Product Name	Product Description	Accessories
OP151s	1GE(SFP)	NA

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