ZISA OP156
1GE+3FE WIFI VOIP GPON HGU

Description

OP156 is support be applied to a wide temperature environment, and also has a powerful firewall function.

OP156 meets telecom operators FTTO (office), FTTD (Desk), FTTH(Home) broadband speed, SOHO broadband access, video surveillance and other requirements and design a GPON Gigabit Ethernet products. The box is based on the mature Gigabit GPON technology, highly reliable and easy to maintain, with guaranteed QOS for different service. And it is fully compliant with technical regulations such as ITU-T G.984.x and IEEE802.3ah.

Technical parameters

Technical item	1GE
Chipset	Realtek 128MB
PON interface	1 GPON port(GPON Class B+) Wavelength:Tx1310nm,Rx 1490nm SC/UPC connector Receiving sensitivity: ≤-28dBm Transmitting optical power: 0~+4dBm Transmission distance: 20KM
LAN interface	1 x 10/100/1000Mbps and 3 x 10/100Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector

Wireless	Compliant with IEEE802.11b/g/n Operating frequency: 2.400-2.4835GHz support MIMO, rate up to 300Mbps 2T2R,2 external antenna 5dBi Support: multiple SSID Channel:13 Modulation type: DSSS、CCK and OFDM Encoding scheme: BPSK、QPSK、16QAM and 64QAM
POTS interface	2 FXS, RJ11 connector Support: G.711/G.723/G.726/G.729 codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay Line testing according to GR-909
LED	13, For Status of PWR、PON 、LOS、WAN、WiFi、FXS1~2、ETH1~4、WPS、USB.
Operating condition	Temperature: 0℃～+50℃ Humidity: 10%～90%（non-condensing）
Storing condition	Temperature : -30℃～+60℃ Humidity :10%～90%（non-condensing）
Power supply	DC 12V,1/1.5A
Power consumption	≤10W
Dimension	205mm×140mm×37mm（L×W×H）
Net weight	0.34Kg

Panel lights

LED	Mark	Status	Description
Power	PWR	On	The device is powered up.
		Off	The device is powered down.
Registration	PON	On	The device is registered to the GPON system.
		Off	Device is not registered to the GPON system.
		Blink	Device is registering.
Optical signal	LOS	Blink	Device does not receive optical signals.
		Off	Device has received optical signals.
WAN	WAN	On	WAN is effective.
		Off	WAN is ineffective.

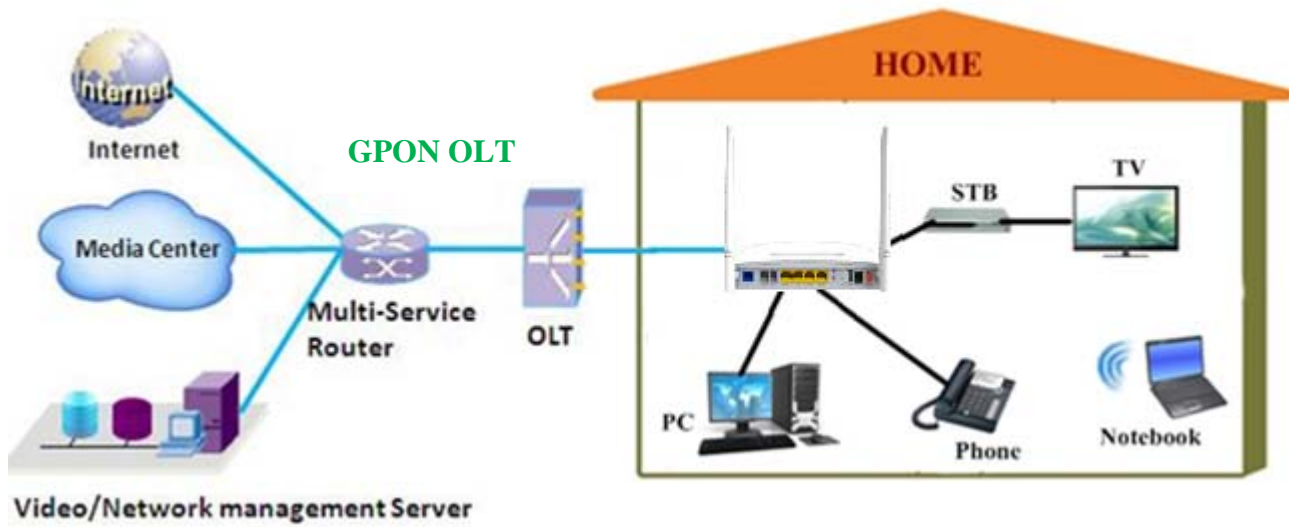| Wireless | WiFi | On | WiFi turned on. |
		Off	Device is power off or WiFi turned off.
		Blink	WiFi turn on and with ongoing data transmission.
Pots	FXS1 FXS2	On	Device has registered to the soft-switch, but without ongoing data transmission.
		Off	Device is power off or not registered to the soft-switch.
		Blink	Phone hooks off or the port is with ongoing data transmission.
Ethernet	ETH1 iTV ETH3 ETH4	On	Port is connected properly.
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data.
Pair	WPS	On	WPS client is connected. (LED turn off after 5 minutes of successful connection)
		Off	Does not use WPS or WPS client is connected.(LED turn off after 5 minutes of successful connection)
		Blink	WPS client is connecting.
USB	USB	On	USB device is connected, but without ongoing data transmission.
		Off	Device is power off or USB device is not connected.
		Blink	USB is with ongoing data transmission.

Interface description

Port Type	Function
PON port	Connect PON port with internet by SC/PC type, single mode optical fiber cable.
FXS port	Connect the telephone with FXS port by telephone wire.
Ethernet port	Connect PC with Ethernet port by RJ-45 Cat5 cable.
WiFi pair button (wireless pair)	Press down WiFi pair button to begin pairing.
WiFi turn on/off (WiFi)	Press down WiFi turn on/off button to enable/disable WiFi function.
Reset button (Reset)	Press down reset button to make the device restart and recover from factory default settings.
USB port	External USB port, connect to USB storage device.
Power port (DC12 V)	Connect with power adapter.
Power turn on/off	Power turn on/off

Software Key Feature

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Software Key Feature	
GPON mode	GPON OLTs(HUAWEI、ZTE、FiberHome, etc).
Software mode	Routing mode.
WiFi	IEEE802.11b/g/n(TX power:17dBm/16dBm/15dBm) WiFi Authentication : WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)
Firewall	DDOS, Filtering Based on ACL/MAC/URL.
Layer2	802.1D&802.1ad bridge, 802.1p Cos, 802.1Q VLAN.
Layer3	IPv4/IPv6, DHCP Client/Server , PPPoE, NAT , DMZ ,DDNS.
Multicast	IGMP v1/v2/v3 , IGMP snooping.
Security	Flow & Storm control, Loop Detection.

POTS	VoIP protocol: SIP、IMS-SIP
	
	Voice enhancement:
	
	   Local exchange
	
	   Dynamic voice jitter buffering
	
	   Silence detection
	
	   Echo offset
	
	   Loss compensation

O&M	WEB/TELNET/OAM/OMCI/TR069, Support private OAM/OMCI protocol and Unified network management of VSOL OLT.

Application Chart

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Specifications are subject to change without notice.