

## Optiv8 400U Series ONU

### Introduction

Optiv8 400U Series ONU terminal devices are designed for fulfilling FTTx and triple play service demand of fixed network operator or cable operators. This box is based on the stable and mature Gigabit EPON technology, which has high ratio of performance to price, and the technology of Layer 2/3, WDM and high quality VoIP as well. It is highly reliable and easy to maintain, with guaranteed QoS for different service. And it is fully compliant with technical regulations such as IEEE802.3ah and technical requirement of EPON Equipment (V2.1 and above version).



O8 – 400U Series



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### Special features

- Plug and play, integrated auto detecting, auto configuration, and auto firmware upgrade technology.
- Integrated OAM and TR069 remote configuration and maintenance function.
- Support rich QinQ VLAN function and IGMP snooping multicast feature.
- Integrated line testing compliant with GR-909 on POTS.
- Support EPON fiber transceiver, CATV Receiver and RF output diagnostic monitoring, EPON fiber transmitter and RF receiver can be disabled remotely.
- Fully compatibility with OLT based on Broadcom chipset.
- For small and medium-sized operators, VoIP services are customizable.
- Support IEEE802.11n 2T2R WiFi function.

## Technical parameters

Technical items	Descriptions
Upstream PON interface	1 EPON interface, SC single-mode/single-fibre, symmetric 1.25Gbps
Wavelength	Tx 1310nm, Rx 1490nm
Data TX output	-1dBm to 4dBm @ 1310nm
Optical RX sensitivity	< -24dBm @ 1490nm
RF output	80dBuV @ -8 to +2 dBm
WLAN	Compliant with IEEE802.11b/g/n, 2T2R, internal antenna
Downstream LAN interface	4 x 10/100Mbps auto adaptive Ethernet interfaces, Full Duplex/Half Duplex, RJ45 connectors
Downstream POTS interface	2 FXS, RJ11 connectors
Indicators	For status of power supply, PON, LAN and POTS.
DC power supply	+12V, external AC-DC power adaptor
Reset button	1, restore the device.
Power button	1, power on/off the device
Power consumption	≤ 10W
Operating condition	Operating temp: -5 - +45℃; Operating humidity: 10-90% (non-condensed)
Dimension (L*W*H)	205mm*138mm*50mm
Net weight	0.4Kg

## Ethernet Service Functions

- 1) Full speed non-blocking switching.
- 2) Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc.
- 3) Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc.
- 4) Support auto polarity detection of Ethernet ports (AUTO MDIX).
- 5) Integrated IEEE802.1p QoS with four level priority queues.
- 6) Support IPv4 IGMP snooping and IPv6 MLD snooping.
- 7) Support NAT and Firewall.

## POTS Service Functions

- 1) Call protocol: SIP (IMS compatible), seamless compatible with all popular call agent.
- 2) Integrate heartbeat function and support active/standby call agent.
- 3) Voice coding: ITU-T G.711/G.723.1 (5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent.
- 4) Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length.
- 5) Support high/low speed fax/Modem, bypass fax, and T38 fax.
- 6) Support RFC2833 and redundant RFC2833, difference rings, MD5 authentication, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service.
- 7) Multi-party conferencing.



- 8) Line testing according to GR-909.
- 9) IP address assignment: dynamic PPPoE/DHCP Client and static IP.
- 10) Support WEB, CLI, TR069.
- 11) Integrated OAM, XML, DHCP option 66 & 67 for auto configuration and firmware upgrade.
- 12) Call loss is less than 0.01%.

#### **CATV Service Functions**

- 1) RF frequency: 45~875MHz.
- 2) Turn on/off RF output remotely.
- 3) RF level can be showed on PC Web real time.

#### **Wi-Fi service**

- 1) Integrated 802.11b/g/n.
- 2) Support WEP and WPA/WPA2 security protocols.

#### **Information Summary**

Product model	GE	FE	POTS	CATV	Wi-Fi
400 Series	/	4	2	/	√