

## FD511Y-Outdoor GPON ONT



### Overview

FD511Y is the Outdoor GPON ONT devices. The FD511Y designed with one GPON port, one standard 10/100/1000 Base-TX Ethernet ports. It is aluminum alloy die casting shaping, and have good heat dissipation. It's apply to road traffic, urban security, public security video monitoring system, have good high performance-cost.

FD511Y is based on ZTE high-performance xPON access chip. The chip supposes three mode: GPON/EPON/P2P, comply with the GPON standard of g.984, g.983, 802.3-2005, CTC EPON equipment technical requirements, have good xPON interoperability compatibility.

FD511Y has high reliability and QoS services, easy management, flexible expansion of the features. Product function and performance meet of the ITU - T, IEEE, international, industry standards and technical specification.

### Features

- Fully compatible with ITU-T G.984.1/2/3/4
- Support downlink rate 2.448Gbit/s, uplink rate is 1.244Gbit/s
- Support 32 TCONT, 256 GEMPORT
- Support bidirectional FEC, supports the RS (255, 239) FEC decoding
- Support AES128 encryption and decryption functions with G.984 standard
- Support SBA and DBA bandwidth allocation
- Support PLOAM, embedded OMCI management with G.984 standard
- Support Dying-Gas detection and reporting
- Support rogue ONT detection
- Support GPON energy saving of G987.3 protocol
- Support Tag/Untag Ethernet frame of 802.1 and Q 802.3 standard, support QinQ

- Support CTC2.1, TR156 requirements of flexible tag processing
- Support for flexible flow classification, maximum 520 flow classification rules
- Support link error monitoring and loop monitoring
- Support a variety of multicast forwarding mode, support multicast replication
- Auto-negotiation and manual settings of Ethernet supporting rate, duplex mode
- UNI interface supports STP/RSTP protocol
- Provide QoS guarantees for different priority business through SLA restraining, Policing, queue management scheduling / congestion avoidance, discarding management mode
- Support flow control based on entrance , choose Pause frame reaction pressure to Packet loss for the business beyond
- Support HQoS function

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## Specification

Item	Parameters	Specification
Interface	PON Port	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/PC single mode fiber 28dB Link loss and 30KM distance with 1:128
	Ethernet Port(LAN)	1*GE Auto-negotiation RJ45 ports Full Duplex / Half-Duplex RJ45, Auto-MDI/MDI-X Transmission Distance 100 Meter
	Power Supply Port	220V AC
Management	Network Management	Standard compliant OMCI interface as defined by ITU-T G.984.4 Support WEB management
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Indicator	Indicator Description	PWR: Power up or down PON: ONT registered LOS: Optical Link Status ETH: LAN Status
Environmental Specifications	Shell	aluminum casing
	Power	Power supply: 220V Power consumption: <3W
	Dimensions / Weight	190mm×137mm×98mm <1.5kg
	Environment	Working Temperature: -10~65℃ Storage Temperature: -40~85℃

Working humidity: 10%~90%non-condensing  
Storage humidity: 10%~90% non-condensing

## Applications

- ◇ CATV
- ◇ Internet Access
- ◇ VOD
- ◇ IPTV
- ◇ Camera monitor system

## Ordering information

Product Name	Product Model	Descriptions
Outdoor GPON ONT	FD511Y	Built -in one ONT module, One 10/100/1000M Ethernet Ports, one GPON Port, aluminum casing, 220VAC power supply