

## ONU100 SFU Type EPON ONU



### Brief Views

GEPON ONU100 is mainly designed for FTTH,FTTO application. GEPON ONU FD101HC/FD111HC support 1000Base-PX20 standard with 1:64 maximum optical splitting ratio and 20km distance, and provide 1uplink GEPON port.

ONU100 together with OLT could realize flexible network structure and maintenance and provide total FTTx solutions.

ONU100 has 1 PON port and one 10/100BASE-T ports.

### Functional Feature

- Support port-based rate limitation and bandwidth control;
- In compliant with IEEE802.3ah Standard
- Up to 20KM transmission Distance
- Support data encryption, group broadcasting, port Vlan separation ,RSTP,etc.
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software;
- Support VLAN division and user separation to avoid broadcast storm;
- Support power-off alarm function ,easy for link problem detection
- Support broadcasting storm resistance function
- Support port isolation between different ports
- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- EMS network management based on SNMP ,convenient for maintenance

### Specification

Item		Parameter
Interface	PON Interface	1 EPON optical interface Meet 1000BASE-PX20 standard Symmetric1.25Gbpsupstream/downstream SC single-modfiber split ratio:1:64 Transmission distance 20KM2

	User Ethernet Interface	1*10/100M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	Power Interface	12V DC Power supply An external 12V 0.5A AC/DC power supply adapter
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx 1490nm Tx Optical Power: -1~4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125µm single-mode fiber
	Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps Ethernet: 100Mbps (FD101HC, FD104HC), 1000Mbps (FD112H, FD111HC) Packet Loss Ratio: <1*10E-12 latency: <1.5ms
	Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support link detection
Network Management	Management Mode	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Support Remote management through SNMP and Telnet Local management
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Indicator	LED Indicator	PWR: Power up or down SYS: System instructions OPTIN: Optical Link Status LINK: ONU Registered LAN: Link Status of Ethernet Interface
Physical Features	Shell	Plastic casing
	Power	External 12V 0.5A AC/DC power supply adapter Power consumption: FD101HC < 2W; FD111HC < 2.3W
	Physical Specifications	Item Dimension: 110mm(L) x 70mm(W) x 30mm(H) Item weight: 0.1kg
	Environmental Specifications	Operating temperature: 0 to 50 °C Storage temperature: -40 to 85 °C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 5% to 95% (Non-condensing)