

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 V-lan 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

ONU-1FE/1GE GEPON ONU Manual

ONU-1FE 1FE/1GE GEPON ONU

(1GE/1GE ETH Port)

Brief Views

GEPON ONU-1FE/ONU-1GE is designed mainly for FTTH use and FTTO use as well. GEPON ONU-1FE/ONU-1GE

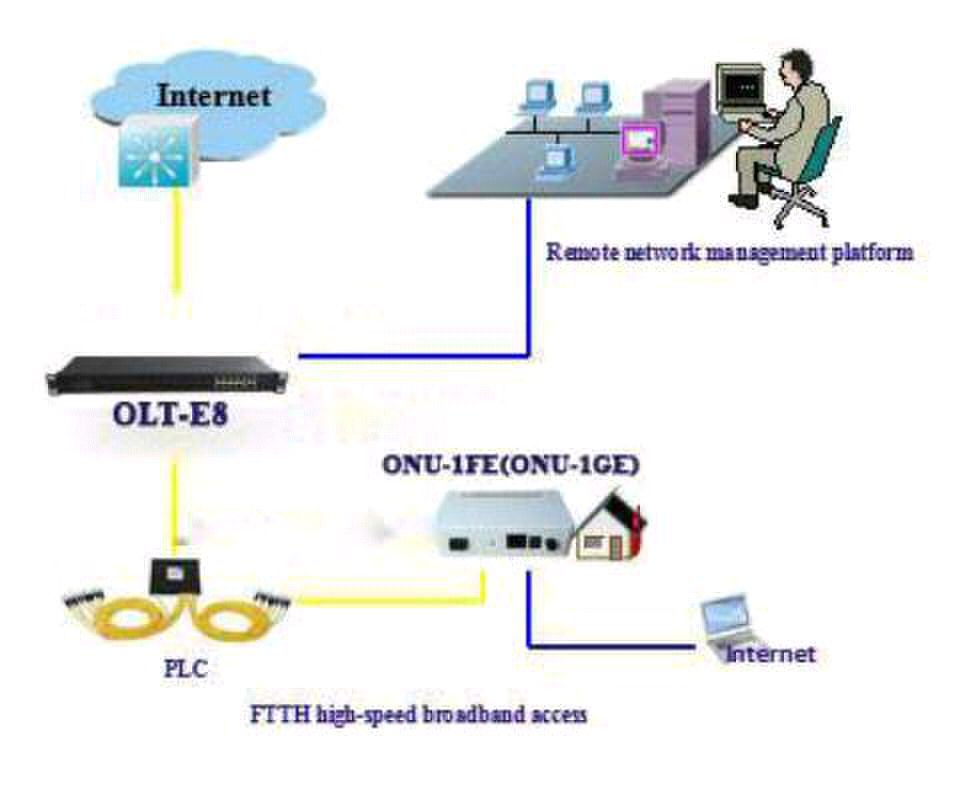
support 1000Base-PX10/PX20 standard with 1:64/1:32 maximum optical splitting ratio and 10/20km distance,

and provide 1uplink GE PON port.

ONU ONU-1FE/ONU-1GE together with OLT could realize flexible network structure and maintenance and provide

total FTTx solutions.

ONU ONU-1FE/ONU-1GE adopts single fiber WDM technology with down-link wavelength 1490nm and up-link

 wavelength 1310nm .It only needs one-core fiber to transmit data service.

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

ONU ONU-1GE has 1 PON port and one 10/100/1000BASE-T ports

Functional Feature

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Support ACL and SNMP to configure data packet filter flexibly

Specialized design for system breakdown prevention to maintain stable system

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Specification

|  |  |  |  |  |  |  |  |  |
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| **Item** | | **Parameter** | | | | | | |
| **Interface** | PON Interface | 1 GEPON optical interface | | | | | | |
| Meet 1000BASE-PX20 standard | | | | | | |
| Symmetric1.25Gbpsupstream/downstream | | | | | | |
| SC single-modfiber | | | | | | |
| split ratio:1:64 | | | | | | |
| Transmission distance 20KM2 | | | | | | |
| User Ethernet | 1\*10/100Mauto-negotiation (ONU-1FE) | | | | | | |
| 1\*10/100/1000Mauto-negotiation (ONU-1GE) | | | | | | |
| Full/half duplex mode | | | | | | |
| Interface | 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** | PON | Wavelength: Tx 1310nm, Rx1490nm | | | | | | |
| TxOptical Power: -1～4dBm | | | | | | |
| Rx Sensitivity: -24dBm | | | | | | |
| Optical |
| Saturation Optical Power: -3dBm | | | | | | |
| Parameter |
| Connector Type: SC | | | | | | |
| Optical Fiber: 9/125 | | ɥ | m single-mode fiber | | | |
| Data Transmission | PON | Throughput: | Downstream | | 950Mbps; | Upstream | |
| 930Mbps | | | | | | |
| Ethernet: 100Mbps (ONU-1FE,ONU-4FEC); | | | | | | |
| **Parameters** | Parameter | 1000Mbps(ONU-GFE) | | | | | | |
| Packet Loss Ratio:<1\*10E-12 | | | | | | |
| latency: <1.5ms | | | | | | |
| Business | Layer 2 wire speed switching | | | | | | |
| Support VLAN TAG/UNTAG，VLAN conversion | | | | | | |
| Support Port-based speed limitation | | | | | | |
| Capability | Support Priority classification | | | | | | |
| Support storm control of broadcast | | | | | | |
| Support RSTP | | | | | | |
| **Network** | Management | Support IEEE802.3 QAM, ONU can be remotely managed | | | | | | |
| by OLT | | | | | | |
| Mode | Support Remote management through SNMP and Telnet | | | | | | |
| Local management | | | | | | |
| **Management** |
| Management | Status | monitor, | Configuration | | management, | | Alarm |
| management, | | | | | | |
| Function |
| Log management | | | | | | |



PON+EOC

IP Camera

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Typical Solution FTTH FTTB

Typical Business INTERNET IPTV VOD

ONU-1FE/1GE GEPON ONU Manual

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| **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: < 3.8W | |
| Physical | Item Dimension：160mm(L) x 120mm(W) x 30mm (H) | |
| Specifications | Item weight：0.2kg | |
| Environmental | Operating temperature: | 0 to 50 ºC |
| Storage temperature: -40 to 85 ºC | |
| Specifications | Operating humidity: 10% to 90% (Non-condensing) | |
| Storage humidity: 5% to 95% (Non-condensing) | |

Application

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Figure: ONU-1FE/ONU-1GE Application Diagram