

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

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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