Summary

ONU-8FE is a high cost performance ONU terminal device. (Indoor and outdoor. Gigabit Ethernet/Passive optical network). Provide four 10/100M base-t Ethernet port and one PON port to transmit voice, data and video, etc. ONU-8FE is a high cost performance ONU terminal device. (Indoor and outdoor. Gigabit Ethernet/Passive optical network). Provide four 10/100M base-t Ethernet port and one PON port to transmit voice, data and video, etc.

Flexibility in function and Integrate L2 switch

Followed EPON technology development, we launch GEPON ONU based on the latest EPON standard, and at the same time follow EPON technical requirements and standard of China Telecom and China Netcom and radio and television/power. It has good intercommunity, can work with OLT from the mainstream manufacturer. The product can be placed in the family, the Internet bar, the small office, or other broadband access occasion. Products provide one 10/100/1000M broadband access, realize the powerful and manageable.

L2 Ethernet function, and transmission distances can be up to 20 km. Installation is convenient and flexible. Meeting FTTH/FTTB/FTTC, etc. various kinds of application. scenarios. ONU-8FE outdoor type ONU is suitable for various super high temperature, the ultralow temperature, moisture, etc.

Feature:

◆ Completely compatible with EPON international standard IEEE802.3ah/802.3-2005

◆ Support China Telecom EPON CTC2.1 standard and expand OAM

◆ Support triple churning encryption requested by China Telecom

◆ Support DBA reporting mechanism requested by China Telecom

◆ Support OAM （Link，Test，Loop back）maintenance function defined IEEE802.3ah

◆ Support the remote upgrade and download

◆ Support status detection and fault report

◆ Support to save configured parameters if power down

◆ Support to configure the work mode at the user port

◆ Support MDI-MDIX automatic-detection at the user port.

◆ Support data encryption and decryption

◆ Support access authentication based on serial number

◆ Support access authentication based on MAC address

◆ Support 802.1Q VLAN

◆ Support IGMP Snooping

◆ Support traffic rule to modify the related priority.

◆ Support LED indication

◆ Support to restore the factory settings

◆ Support the remote reset and reboot

◆ Support dying gasp outage alarm

Standard:

◆ IEEE 802.3ah

◆ IEEE Std 802.1D, 1998 Edition, Media Access Control (MAC) Bridges

Paramete

■ Support WDM, single fiber two-way transmission
■ Interface type: SC/UPC
■ Maximum splitting ratio: 1:64
■ Speed: 1.25Gbps symmetry at the upper and lower
■ Sent wavelength: 1310 nm
■ Received wavelength: 1490 nm
■ Optical output power: -1~+4dBm

■ Receiving sensitivity: < -25dBm
■ The farthest distance between OLT and ONU is 20km
Layer 2 switch：
■ Support IEEE 802.1q VLAN
■ Support speed rate inhibition of broadcast and unicast packet at ONU
■ IEEE 802.3x flow control
■ Support IGMP Snooping: support 16 multicast addresses at each LAN port
Security strategy:
■ MAC address is the automatic registration mark at ONU end
■ Support plug and play, automatically register at ONU end
■ Support access authentication based on serial number
Management maintenance:
■ Support the remote management from OLT to ONU, support SNTP and Log
■ Upgrade software remotely
■ Support to save configuration parameters when power down

LED
■ PWR-LED: Power supply status
■ LINK1-LINK4-LED:Eth1-Eth4 connection status
■ PON-LED: PON line connection status
■ LOS-LED: Optical port alarm status

Hardware information

Dimension:
■ 285mm（Length）x110 mm（width）x 35mm（height）
■ Weight: ＜2000g
Power supply and power consumption:
■ 100V ~ 240VAC, 50/60HZ

- Maximum power consumption: ≤ 5 W

General technical requirement:

- Working temperature: -20ºC ~ +60º C

- Relative humidity: 5% ~ 95% （no condensation）

- Storage temperature: –40 ~ +75º C

Relative Standard:

Authentication:

- Accord with CE, ROHS6, CCC, etc.

EMC / EMI :

- Accord with VCCI Class B, FCC Part 15 B

Security:

- Accord with UL 60950 safety specification

Lightning and Surge Voltage Protection

- Accord with ITU-T K.21

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