PTF1308 - 8FE Data Type EPON ONU

Description

PTF1308 pure data type ONU is the passive optical network end-user's product, which we tailor-made according to broadband access market basing on EPON technology. PTF1108 is applied with EPON Head-end products OLT to provide users complete broadband access solutions basing on EPON technology.

EPON is a new technology to combine the advantages of PON and Ethernet, a point-to-multipoint networking technology. Head-end OLT through the passive optical network and ONU equipment interconnection, combining with single-fiber and Bidirectional technology, EPON system can meet the operator's requirement for multi-user access through little optical fiber resources.

EPON is a technology based on Ethernet, can be a good integration with existing network infrastructure, technology-based DBA, EPON can provide the user with a flexible, reliable QoS services.

PTF1308 support symmetric 1Gbps transfer rates in up and down, applying with Head-end OLT, providing users with QOS, flexible bandwidth allocation, Ethernet services and IP Integrated Services.

PTF1308 is with metal shell and built-in high-performance switching power supply, suitable to install in outdoor or corridor's boxes or other poor conditions. It fully comply with the IEEE's EPON technology standards to meet many operator's technical requirement.

Features

- Pure data type ONU, metal shell, built-in high-performance switching power supply
- Be Complied with IEEE802.3ah standard
- Transmission distance of 20KM, support data encryption
- Supporting multicast
- Isolating from each different data port
- Supporting broadcast storm suppression
- Supporting RSTP Rapid Spanning Tree
- Supporting partition of port and protocol-based VLAN
- Supporting port-based performance statistics
- Supporting ACL, can access data on different types of flexibility
- Supporting a variety of flexible bandwidth allocation
- Supporting multi-LLID and single LLID configuration, using different LLID for different user or demand for different QOS service levels
- support software upgrade online
- Supporting EMS unified network management based on SNMP protocol network management platform, easy installation and maintenance
- With failure alarm function, ease for fault diagnosis

Specifications

Item	Parameter	Specification
Interface Specification	PON Port	An EPON optical port 1000BASE-PX20 standard Uplink and downlink symmetrical 1.25Gbps rate SC single-mode single fiber Maximum split ratio: 1:64

		Transmission distance: 20KM (split ratio of <1:32)
	User port	8 10/100M adaptive Ethernet port Full / half duplex RJ45 copper ports, with cross-directly connected adaptive Transmission distance of 100 meters
	Power Interface	220VAC power supply power cord
Performance Specifications	PON optical port performance	Wavelength: Send 1310nm receiver 1490nm Transmit Power: -1 ~ 4dBm Receiver sensitivity:-27dBm Saturated optical power:-3dBm
	Data transmission performance	PON port throughput: Downlink 950Mbps; uplink 930Mbps Ethernet port: 100Mbps Packet loss rate: <1 * 10E-12 Transmission delay: <1.5ms
	Operational capacity	The second layer of wire-speed switching Support switch of VLAN TAG / UNTAG, VLAN Support the port speed limitation Support the business prioritization Support broadcast packets inhibition Support RSTP

Device Manager	Management methods	Unified management by the head-end OLT through the OAM protocol, supporting SNMP,TELNET, and local management
	Management function	Status monitoring, configuration management, alarm management, log management
Status indication	Indicator	PWR: Power indication OPTIN: Optical signal indicator LINK: Registration instructions The LAN1 ~ 4: The network port state
Physical properties	Shell	Metal casing
	Power and power consumption	220V AC power supply, built-in switching power supply 220VAC turn 12VDC Power consumption: <6W
	Size, weight	Device Size： 200mm(L) x 150mm(W) x 39mm (H) Packing size: 268mm (L) x 256mm (W) x 74mm (H) Net weight: 0.9kg With packaging weight: 1.1kg
	Environmental parameters	Operating Temperature: -10 ~ 55 ℃ Storage Temperature: -40 ~ 85 ℃ Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 95% non-condensing

Typical applications

2 Typical access solution: FTTB

2 Typical business: broadband Internet, IPTV, VOD, video on demand, video surveillance