

RPT-2000

GEPON OLT



Product Description

RPT-2000 is the GEPON OLT optical line terminal equipment. It can support 2 GEPON PON ports and connect 128 ONU at most (by 1:64 splitter), and provides 2 uplink GE optic SFP slots and 2 uplink copper SFP slots.

Features

1. High Stability with low cost and flexible networking construction

1. Two fixed PON slots with 1:64 splitting ratio at most.
2. RPT-2000 could support 128 ONU maximally.
3. Maximum Transmission distance: 20km (1:32 splitting ratio).

2. Comprehensive Network Management

1. In band and out band management.
2. Support Telnet and local command lines management.
3. EMS management based on standard SNMP protocol.
4. Support online upgrading.

3. Powerful QOS Function

1. Realize stable and efficient dynamic bandwidth allocation (DBA)

4. Various OAM Function

1. ONU auto-detection and registration.
2. Support LGMP and Snooping function.
3. Support port flow control and flow shaping.

Datasheet

Parameter	Item	Index
Ports	Uplink Port	QTY:4 Physical interface: 10/100/1000M auto-negotiable,RJ45:2pcs; GE SFP ,1000BASE-LX:2pcs
	PON Port	QTY:2 Physical Interface:SFP Slots Connector Type:1000BASE-PX20 Max splitting ratio:1:64
	Management Port	1*10BASE-T out-band management port 1*Console management port

	OLT PON SFP	Transmission Distance:20KM PON port speed: symmetrical 1.25Gbps Waves: 1490nm TX,1310nm RX TX Optical power : +2~+7dBm RX Sensitivity: -28dBm
Management	Management Mode	SNMP,Telnet,and CLI management mode. Support EMS centralized management based on C-Data development interface independently.
	Management Function	1. Fan Group Detecting 2. Port Status monitoring and configuration management; 3.Layer-2 switch configuration such as Vlan, Trunk ,RSTP,IGMP ,QOS, etc; 4.EPON management function: DBA ,ONU authorization, ACL ,QOS ,etc; 5.Online ONU configuration and management 6.User management 7.Alarm management
Functionality	Layer-two Switch	8.Support port Vlan and protocol Vlan 9.Support Vlan tag/Untag ,vlan transparent transmission; 10.Support 4096 VLAN 11.Support 802.3dd trunk 12.RSTP 13.QOS based on port ,VID,TOS and MAC address 14.IGMP Snooping 15.802.x flow control 16.Port stability statistic and monitoring
	EPON Function	1. Support port-based rate limitation and bandwidth control; 2. In compliant with IEEE802.3ah Standard 3. Up to 20KM transmission Distance 4. Support data encryption, group broadcasting, port Vlan separation ,RSTP,etc. 5. Support Dynamic Bandwidth Allocation (DBA) 6. Support ONU auto-discovery/Link detection/remote upgrade of software; 7. Support VLAN division and user separation to avoid broadcast storm; 8. Support various LLID configuration and single LLID configuration .Different user and different service could provide different QoS by means of different LLID channels. 9. Support power-off alarm function ,easy for link problem detection 10. Support broadcasting storm resistance function 11. Support port isolation between different ports 12. Support ACL and SNMP to configure data packet filter flexibly 13. Specialized design for system breakdown prevention to maintain stable system 14. Support dynamic distance calculation on EMS online 15. Support RSTP,IGMP Proxy

Physical Features	Dimension	440mm*260mm*44mm (LxWxH)
	Weight	GW:4kg NW:3KG
	Power Supply	90~264VAC
	Consumption	16W
	Operating Environment	Working Temperature: 0~50℃ Storage Temperature: -40~85℃ Relative Humidity: 10~90%(non-conditioning)

Order information

Product	Model	QTY	Unit	Configuration
1U GE PON OLT	RPT-2000	1	Set	1U GE PON OLT with 2 PON slots ,220V(110V) AC power supply; The default configuration is 2pcs of OLT SFP without uplink SFP.
Uplink SFP	/	1~2	PC	Optional; when the uplink port is optical port, it would be taken into consideration. The default configuration is 20KM dual fiber.
OLT PON SFP	/	1~2	PC	Default configuration is 2pcs; Minimum 1pc ; Max 2pcs