

Description

OLT2000 16 Pon ports

OLT2000 with multipurpose integrating, flexible application, high reliability and QoS guarantee, it conforms to the requirements of telecommunication-level FTTX broadband access for multiple service application scene. It is manageable, easy to expand and build up network.

OLT2000 can provide at most four slots with 1024 ONUs (branching ratio1:64) switching. Each PON card is equipped with two or four EPON interfaces. Through optical distribution device with max branching ratio1:64, each EPON interface by optical fiber connects with 64 EPON remote ONU equipments. This connection

makes up the passive optical network sending Ethernet data. It has the advantages of large transfers, good secrecy, flexible networking and saving cable resources and cots numbers.

OLT2000 mainly applies to the projects of access service to realize fiber to the home/ building and the switching-on of IP phones, broadband data and IP TV; It can achieve performance management, fault management and configuration management. Usually, it is place in the machinery room of telecommunication office, districts or large buildings. On condition that the network is simple, it directly links with backbone layer equipment



Features

Medium density, high capacity

Standard machinery frames with 19 inches wide and 2U tall.

OLT2000 with maximum 4 EPON boards, offering 16 EPON interfaces at most.

All boards support hot swap.

Support 20km transferring under 1:32 branching ratio and connects to 512 line access; 10km transferring under 1:64 branching ratio and connects to 1024 line access, When FEC is on.

Support 50km long distance optical fiber transmission with 48Gbps.

High reliability

OLT2000: provides AC、DC powers, supports power 1+1 protection switching

OLT2000 supports EPON OP active/standby changeover with fully guaranteed reliability. Under such condition, each PON card supports one PON system. The system power recovers according to its configuration after it aborts.

Network flexibility

OLT2000 provides 8 uplink interface: 4 OP and 4E, 10/100/1000M auto-negotiation electrical interface or 1000M optical interface, maximum 8 1000M interfaces and various network such as chain network, star network and tree network. Support Trunk and RSTP.

Integrated QoS guarantee

Each PON supports 255 logic paths, combining with cos, tos or dscp to ensure QoS; triple churning encryption for each logic path;

Supports dynamic broadband attribution with powerful bandwidth sharing function and improves bandwidth utilization rate

Accompanied with flexible bandwidth management, the duel control I mode based on SLA and priority guarantees the QoS. It assures users' minimum guaranteed bandwidth and TDM low-delay.

OAM characteristics

Support ONU auto discovery and auto uthentication;

Support loop-detection;

Support remote ONU auto alarm for fiber cut and power cut;

Its operational and manageable telecommunication features: MAC address binding and filtering, IP address binding and filtering, bandwidth control, VLAN and flow control;

Other OAM expanded by China telecom for CTC intercommunication request and Telco Alarm standard alarming interface.

Self-contained network management

It Supports remote management way of TELNET、TFTP and simple local CLI; command line style consistent with the industry;

Embedded the network agement base on the graphical interface WEB;

Support SNMP graphical interface network management;

Support Remote online upgrade;

Support OOB/in-band management;

Support remote diagnosis and rapid fault location for terminals

Support ONUs remote upgrade in one time, after automatically detected new software version in the system.

Support users permission privilege management.

Others:

support single LLID、multiple LLID mixed QoS service mode

Support VLAN Transparent/hybrid/Translation mode

Support fixed QinQ/ flexible QinQ mode

Support IGMP Snooping/Proxy/CTC controllable mode

Support three layer static routing

Summary	48Gbps Processing capacity Max supply 1024(ONU) CATV(47-860MHz) Max.20KM(OLT-ONU)
Uplink ports	4routes 10/100/1000M Ethernet interface 4 routes 1.25Gbps SFP Interface
PON interface	Single Pon card supply 4 Pon ports SC/APC
Working wavelength	Tx.1490nm Rx.1310nm CATV:1550nm
Control interface	RJ45(RS232)
Network management interface	RJ45(10/100M)
Size	483mmX88mmX390mm
Weight	4.2Kg
Consumption	300w
Supply Voltage	-48VDC or 220VAC
Working temperature	0~+45℃
Relative humidity	+10%~+90%
Other	IEEE802.3-2005 VLAN802.1Q&802.1P IGMP Snooping RSTP(802.1W) QoS ACL