Technical Data Sheet

Nepstech 4 Port L3 10G EPON OLT

Model No. NTPL-OLTEPN410G

Description:

The 4-port series of products are high integrated, medium capacity EPON OLT switching equipment for operators' access and enterprise park, security video surveillance and other networking scenarios. This product follows IEEE802.3ah technology standard, the equipment provides uplink 4 gigabit electric port and 4 gigabit SFP interface, downlink 4 gigabit EPON optical port. The maximum light splitting ratio of each EPON port is 1: 64, and the system can support 256ONU, to meet the requirements of EPON OLT. The system has good openness, large capacity, high reliability and complete software functions. It is widely used in front-end network coverage, private network construction, video surveillance, enterprise network park, Internet of things, residential network optical fiber access network construction.

Advantage:

- EPON:OLT follows the technical standard of IEEE802.3ah and China telecom.
- Capacity: Each PON supports up to 64 terminals, the whole device supports up to 256 ONUs under full configuration.
- Uplink: support electrical and optical modules, can be flexibly configured according to different networking.
- Dimension: 1U cassette save space, low power consumption and save cost.
- Optical Line Protection: support automatically switch when the line is debug.
- High reliability: supports dual power supply (Default single power supply).

Feature:

- Aggregation layer switch. Layer wire-speed forwarding, support for rich layer protocol.
- 16K MAC address table.
- 8uplink ports, port aggregation through the largest available 8G uplink bandwidth.
- Complete network management functions
- Support flexible DBA, up and down traffic speed.
- Support IP ToS, IEEE802.1Q
- Port-based traffic control, traffic shaping.
- Support ONU automatic identification, auto-discovery, and auto-registration.
- Single link to support the automatic loop-back test function.
- VLAN powerful features, including VLAN Stacking, Trunk, Translation.
- Flexible and controllable multicast support, support IGMP snooping.
- Support ACL

Applications:

- Data services
- Voice services

- Video services
- Monitoring service
- FTTH / FTTB / FTTO / FTTP

configuration parameter：

Model	04PON	
DDR	256M	
FLASH	16M	
Size (L*W*H)	Product size:442mm×260mm×44mm	
	Package size:520mm×372mm×87mm	
Weight	<5kg	
Uplink	QTY	8
	Copper	4*10/100/1000Mauto-negotiable ,RJ45
	SFP	4 SFP/SFP+ slots
PON	QTY	4
	PhysicalInterface	4 SFP slots
	Connector Type	1000BASE-PX20+
	Max splitting ratio	1:64
Management Ports	1*10/100/1000Mauto-negotiable outband port 1CONSOLE port	
Power Input	AC: 100V～240V AC 47/63Hz DC: -36V～-72V DC	
Support standard	IEEE 802.3ah EPON IEEE802.3(10Base-T) IEEE802.3u(100Base-TX) IEEE802.3z（1000BASE-X） IEEE802.3ab（1000Base-T） IEEE802.1Q(VLAN) IEEEE802.1d(STP) IEEEE802.1W(RSTP) IEEE802.1p(COS) IEEE802.1x(Port Control) IEEE802.3x（flow-control） Each OLT interface supports at most 64 ONU； Transmission distance of each OLT is at most 20Km	
PON function	Support auto register and confirm Blacklist and whitelist onu DBA configure	
Layer 2 function	VLAN,QinQ,link convergency, broadcast strom control Support at most 4094 VLAN;performance statistic； 16K MAC address;mac address management Port mirror	
Security	Limit quantity of maximum user at each port Port violation Packe storm control ACL access control based on data stream Encrytion of PON port transmitting data Support 802.1X authentication	

Configuration and Management	SNMP
	NMS
	CLI, SNMP, TELNET,cluster etc.
	RMON v1, 1,2,3,9 groups
	SSHv1/v2
	Software and bootrom upgrade by TFTP and FTP
	Local server syslog to record system log
	Chinese/English command prompt
	Ping and traceroute Debug
Lightning	Service port has lightning protection
Maintenance	Telnet remote maintenance
Temperature	-20℃～50℃
Humidity	5%～95%

NEPS Technologies Private Limited

Website : www.nepstech.co.in