Overview:

The NETRO NN-EPON-4OLT-L3 is self-developed Compact 1U EPON OLT equipment, meeting the requirements of IEEE802.3ah and meets the EPON OLT equipment requirements of YD/T 1945-2006 Technical requirements for access network——based on Ethernet Passive Optical Network (EPON) technical requirements 3.0, possessing super EPON access capacity, carrier-class reliability and the complete security function. It can satisfy long-distance optical fiber access requirement on account of its excellent management, maintenance and monitoring capability, abundant service features and flexible network mode. NETRO NN-EPON-4OLT-L3 can be used with NMS3000 network management system so as to provide users with the perfect solution.

The NETRO NN-EPON-4OLT-L3 provides 4 *Downsteam EPON ports, 4 * Uplink GE ETH ports, 2 * Uplink GE SFP ports and 2* Uplink SFP+ ports. Up to 1:64 Split ratio for up to 256 EPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. NETRO NN-EPON-4OLT-L3is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc. Provide perfect, intelligent, powerful, advanced and professional solutions for FTTH/FTTB projects.

Specifications:

Network Interface	
EPON interface	4* EPON (1.25/1.25 Gbps)
Uplink Optical Interface	2 * GE SFP + 2 * 10GE SFP+
Uplink Ethernet Interface	4 * GE RJ45
PON interface	
EPON	IEEE 802.3ah EPON
Local Management Interface	
Console	RJ45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port
Performance	
Switching Capacity	64Gbps
Package transmit rate(IPv4/IPv6)	125Mpps
Split ratio	1: 64
Maximum ONU quantity	256 ONT
Power Supply and Consumption	
Power Adaptor	AC Input::100 to 240 V AC, 50/60 Hz; DC Input : 36V-75V
Redundancy Design	Pluggable double power supply, double AC, double DC and AC+DC
Consumption	＜46 W
Environmental conditions	
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature -5 to 50°C, rel. humidity 10–90% (non-condensing)
Physical specifications	
Dimensions	442mm×227mm× 44mm(W * D *H)
Weight	＜ 3.0KG

Key Features:

Ethernet switching (L2) features	
VLAN	• 4K VLAN entries • Port-based QinQ and Selective QinQ (StackVLAN) • Port-based/MAC-based/IP subnet-based VLA
Spanning tree	• IEEE 802.1x STP/RSTP/MSTP • ONU remote loop detection
MAC	• MAC Black Hole • Port MAC limit • 8K MAC address
Port	• Bi-direction bandwidth control • Port mirroring and traffic mirroring
Service Features	
Multicast	• IGMPv1/v2/v3 • IGMP Snooping/Proxy • IGMP filtering
QoS	• Base on port or user-defined rate limitation • Base on port or user-defined priority tag, provide 802.1P, DSCP tag ability of priority • Base on port or user-defined high grade queue scheduling • priority queues and scheduler of SP, WRR and SP+WRR. • Congestion avoidance system
L2	• LACP/VLAN Tag / Un-tag/VLAN transmission/QinQ/802.1D/802.1W • IEEE802.x Flow Control/Port Isolation/Port Rate Limitation/Storm control
Routing(L3)	BGP/MPLS/RIP/OSPF/Arp agent,Static routing
Service Features	
User security	• Anti-ARP-spoofing deceive defend • Anti-ARP-flooding flooding attack automatic control • IP，MAC，port and VLAN binding • Port isolation
Device Security	• Defend DOS attack • Security IP login through Telnet • Hierarchical management and password protection of users • TACACS+
Network Security	• IP address、VLAN ID、MAC address and port manual binding • Port broadcast /multibroadcast restrain • Base on source / destination MAC address,VLAN,802.1p,ToS,DiffServ,source/destination • IP(IPv4/IPv6) address,TCP/UDP port number protocol type of IP package flow classify and flow • defined regulation management,support package header 80 byte depth L2-L7 ACLflow filtrate • Dynamic ARP table-based binding • DHCP Option82 and PPPoE+ upload user's physical location
Network Management	• Command-line interface（CLI）, Console, Telnet and WEB configuration • RMON (Remote Monitoring)1/2/3/9 groups of MIB • System configuration with SNMPv1/v2/v3 • NTP(Network Time Protocol) • NMS2000 network management

Ordering Information:

Model	Description
NN-EPON-4OLT-L3	4*EPON, 4*GE RJ45 port, 2 * GE SFP + 2 * 10GE SFP+ , Single Power Supply