

### Overview:

The **NETRO NN-GPON\*8OLT** is self-developed Compact 1U GPON OLT equipment, meeting the requirements of ITU-T G.984/G.988 possessing super GPON 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. RL8008GL can be used with NMS3000 network management system so as to provide users with the perfect solution.

The **NETRO NN-GPON\*8OLT** provides 8 \*Downstream GPON ports, 4 \* Uplink GE ETH ports, 2\*Uplink GE SFP ports and 2\* Uplink 10G SFP+ ports. Up to 1:128 Split ratio for up to 1024 GPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. **NETRO NN-GPON\*8OLT** is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.



### Specifications:

Network interface	
GPON interface	8 x GPON (2.5/1.25 Gbps)
10GE Ethernet	2 x 10GE SFP +
1GE Ethernet	4 x RJ-45 + 2 x SFP
PON interface	
GPON	ITU-TG.984.x standard
Local Management interface	
Console	RJ-45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port
Performance	
Switching Capacity	68Gbps
Split ratio	1: 128
Maximum ONU quantity	4096 GEM port-ids, 1024 T-CONT, 128 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	< 70 W
Environmental conditions	
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature 0 to 45°C, rel. humidity 10–90% (non-condensing)

## Physical specifications

Dimensions	442mm×345mm× 44mm(W * D *H)
Weight	< 6.0 KG

## Key Features:

### Ethernet switching (L2) features

VLAN	<ul style="list-style-type: none"> <li>• 4K VLAN entries</li> <li>• Port-based QinQ and Selective QinQ (StackVLAN)</li> <li>• Port-based/MAC-based/IP subnet-based VLA</li> </ul>
Spanning tree	<ul style="list-style-type: none"> <li>• IEEE 802.1x STP/RSTP/MSTP</li> <li>• ONU remote loop detection</li> </ul>
MAC	<ul style="list-style-type: none"> <li>• MAC Black Hole</li> <li>• Port MAC limit</li> <li>• 64K MAC address</li> </ul>
Port	<ul style="list-style-type: none"> <li>• Bi-direction bandwidth control</li> <li>• Port mirroring and traffic mirroring</li> </ul>

### Service features

Multicast	<ul style="list-style-type: none"> <li>• IGMPv1/v2/v3</li> <li>• IGMP Snooping/Proxy</li> <li>• IGMP filtering</li> <li>• PIM-SM</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• Base on port or user-defined rate limitation</li> <li>• Base on port or user-defined priority tag, provide 802.1P, DSCP tag ability of priority</li> <li>• Base on port or user-defined high grade queue scheduling</li> <li>• priority queues and scheduler of SP, WRR and SP+WRR.</li> <li>• Congestion avoidance system</li> </ul>
Routing	<ul style="list-style-type: none"> <li>• BGP</li> <li>• OSPF</li> <li>• MPLS</li> <li>• RIP</li> </ul>

### Security features

User security	<ul style="list-style-type: none"> <li>• Anti-ARP-spoofing deceive defend</li> <li>• Anti-ARP-flooding flooding attack automatic control</li> <li>• IP, MAC, port and VLAN binding</li> <li>• TACACS+ Authentication</li> </ul>
Device security	<ul style="list-style-type: none"> <li>• Defend DOS attack</li> <li>• Security IP login through Telnet</li> <li>• Hierarchical management and password protection of users</li> <li>• Network security</li> </ul>

Network security	<ul style="list-style-type: none"> <li>• IP address、VLAN ID、MAC address and port manual binding</li> <li>• Port broadcast/multi /DLF storm control</li> <li>• 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</li> <li>• Dynamic ARP table-based binding</li> <li>• DHCP Option82 and PPPoE+ upload user’s physical location</li> </ul>
Network management	<ul style="list-style-type: none"> <li>• Command-line interface ( CLI ) , Console, Telnet and WEB configuration</li> <li>• RMON (Remote Monitoring)1/2/3/9 groups of MIB</li> <li>• System configuration with SNMPv1/v2/v3</li> <li>• NTP(Network Time Protocol)</li> <li>• NMS2000 network management</li> </ul>

## Ordering Information:

Model	Description
NN-GPON-8OLT	8*GPON, 4*GE port, 2*GE SFP, 2*10G SFP+, Pluggable Dual Power Supply