

Overview:

The **NETRO NN-GPON-16OLT** (Figure 1) 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. **NETRO NN-GPON-16OLT** can be used with NGBNVIEW network management system so as to provide users with the perfect solution.

The **NETRO NN-GPON-16OLT** provides 16 *Downstream GPON ports, 4 * Uplink GE ETH ports and 4* Uplink 10G SFP+ ports. Up to 1:128 Split ratio for up to 2048 GPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. **NETRO NN-GPON-16OLT** is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.



Specifications:

Network interface	
GPON interface	16 x GPON (2.5/1.25 Gbps)
10GE Ethernet	2 x 10GE SFP +
1GE Ethernet	4 x RJ-45
PON interface	
GPON	ITU-TG.984.x standard
Local Management interface	
Console	RJ-45 EIA/TIA-232 Console management port
MGMT	100BASE-T out-band management port
Performance	
Switching Capacity	205Gbps
Package transmit rate(IPv4/IPv6)	125Mpps
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	< 85 W

Environmental conditions	
Storage	temperature -10 to 65°C, rel. humidity 10–90% (non-condensing)
Operation	temperature 0 to 45°C, rel. humidity 10–90% (non-condensing)
Physical specifications	
Dimensions	442mm×400mm× 44mm(W * D *H)
Weight	<3 KG

Key Features:

Ethernet switching (L2) features	
VLAN	<ul style="list-style-type: none"> • support 4K VLAN • support QinQ base on port or data flow • support VLAN addition, delete and transition
Spanning tree	<ul style="list-style-type: none"> • support STP/RSTP/MSTP • ONU remote loop detection
Multicast	<ul style="list-style-type: none"> • support IGMPv1/v2/v3 • support IGMP Snooping/Proxy • support IGMP filtering
Port	<ul style="list-style-type: none"> • support bi-direction bandwidth control • Port mirroring
Service features	
Multicast	<ul style="list-style-type: none"> • support IGMPv1/v2/v3 • support IGMP Snooping/Proxy • support IGMP filtering
QoS	<ul style="list-style-type: none"> • support base on port or user-defined rate limitation • support base on port or user-defined priority tag, provide 802.1P, DSCP tag ability of priority • support base on port or user-defined high grade queue scheduling • support Congestion avoidance system
Security features	
User security	<ul style="list-style-type: none"> • support Anti-ARP-spoofing deceive defend • support Anti-ARP-flooding flooding attack automatic control • support IP, MAC, port and VLAN binding • support port isolation
Device security	<ul style="list-style-type: none"> • support Defend DOS attack • support user cascade protection, prevent unauthorized user forcible entry
	<ul style="list-style-type: none"> • support IP address、VLAN ID、MAC address and port manual binding

Network security	<ul style="list-style-type: none"> • support port broadcast /multibroadcast restrain • support 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 • support IP address、 VLAN ID、 MAC address and port manual binding • support port broadcast /multibroadcast restrain
Network management	<ul style="list-style-type: none"> • support command line interface (CLI) • support SNMPv1/v2/v3 • support option82 support DHCP service, relay agent • support remote monitoring (RMON) • support port mirror

Ordering Information:

Model	Description
NN-GPON-16OLT	16*PON, 4*GE port, 4*10GE/GE SFP+, Pluggable Dual Power Supply