

ARN1000 Series GPON OLT

10G 16 Ports GPON OLT

High-Performance Cabinet WEB OLT



10G 16 Ports GPON OLT -- **ARN1016G**

Product Overview

ARN1016G are our 16 ports GPON OLT is designed for chassis OLT device which provides 16 downlink 2.5G PON ports, 4 uplink GE ports, 4 uplink GE COMBO SFP ports, 2 uplink 10GE SFP+ ports by Airnet. The height is only 1U for easy installation and space saving, meeting the requirements of *ITU-T G.984/G.988* and relative standards of *China Telecom/Unicom GPON*.

Product Feature

ARN1016G each PON port supports up to 128 terminals, the whole device supports up to 2048 ONUs under full configuration. 16 ports GPON OLT adopts advanced technology to support SLA and DBA to keep strong function on the Ethernet and QoS features. It is applied for commercial and grid network digital management to provide perfect, smart, strong, advanced, professional solutions for “automatic distribution” and “electricity information collection” in the implemented project for the national grid.

Product Specifications

Product	GPON OLT 16 ports
Switching capacity	256Gbps
Throughput (IPv4/IPv6)	95.23MPPS
Ports	16*PON ports, 4*GE Ports, 4*GE COMBO SFP, 2*10GE SFP+.
Power redundancy	Dual power supply, can be double AC, double DC or AC+DC
Power supply	AC: Input 100~240V, 47~63Hz; DC: Input -36V~-75V;
Power consumption	≤120W
Outline dimensions (mm) (W*D*H)	440mm×44mm×380mm
Weight (in maximum configuration)	≤8kg
Environmental requirements	Working temperature: -15°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, no condensing

Business Features

Product		GPON OLT 16 ports
PON features	GPON	<p>Satisfy ITU -T standard</p> <p>TR-101 compliant solution for FTTx OLT applications</p> <p>High splitter rate, each PON port supports 128*ONU ,</p> <p>Maximum transmission distance of 20KM</p> <p>Support uplink FEC, downlink FEC(Forward Error Correction)</p> <p>ONU identifier authentication :SN /SN+PASSWD</p> <p>Bandwidth allocation mechanism</p> <p>5 types of T-CONT bandwidth</p> <p>Static Bandwidth Allocation</p> <p>Dynamic Bandwidth Allocation</p> <p>GPON feature parameter</p> <p>4096 port-IDs per GPON MAC (Downstream and Upstream)</p> <p>1024 Alloc -IDs per GPON MAC (Upstream)</p>
L2 features	MAC	<p>MAC Black Hole</p> <p>Port MAC Limit</p>
	VLAN	<p>4K VLAN entries</p> <p>Port-based/MAC-based/IP subnet-based VLAN</p> <p>Port-based QinQ and Selective QinQ (StackVLAN)</p> <p>VLAN Swap and VLAN Remark and VLAN Translate</p> <p>GVRP</p> <p>Based on ONU service flow VLAN add, delete, replace</p>
	Spanning tree protocol	<p>IEEE 802.1D Spanning Tree Protocol (STP)</p> <p>IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)</p> <p>IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)</p>
	Port	<p>Bi-directional bandwidth control</p> <p>Static link aggregation and LACP(Link Aggregation Control Protocol)</p> <p>Port mirroring and traffic mirroring</p>
Security features	User security	<p>Anti-ARP-spoofing</p> <p>Anti-ARP-flooding</p> <p>IP Source Guard create IP+VLAN+MAC+Port binding</p> <p>Port Isolation</p> <p>MAC address binds to port and port MAC address filtration</p> <p>IEEE 802.1x and AAA/Radius authentication</p> <p>TACACS+ authentication</p> <p>dhcp anti-attack flood attack automatic suppression</p> <p>ONU isolation control</p>
	Device security	<p>Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack</p> <p>SSHv2 Secure Shell</p> <p>SNMP v3 encrypted management</p> <p>Security IP login through Telnet</p> <p>Hierarchical management and password protection of users</p>
	Network security	<p>User-based MAC and ARP traffic examination</p> <p>Restrict ARP traffic of each user and force-out user with abnormal ARP traffic</p> <p>Dynamic ARP table-based binding</p> <p>Supports IP+VLAN+MAC+Port binding</p>

		L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet Port-based broadcast/multicast suppression and auto-shutdown risk port URPF to prevent IP address counterfeit and attack DHCP Option82 and PPPoE+ upload user's physical location Plaintext authentication of OSPF、RIPv2 and MD5 cryptograph authentication
IP routing	IPv4	ARP Proxy、DHCP Relay、DHCP Server、Static route
	IPv6	ICMPv6、ICMPv6 redirection、DHCPv6、ACLv6、Configured Tunnel、6to4 tunnel IPv6 and IPv4 Tunnels
Service features	ACL	Standard and extended ACL Time Range ACL Packet filter providing filtering based on source/destination MAC address, source/destination IP address, port, protocol, VLAN, VLAN range, MAC address range, or invalid frame. System supports concurrent identification at most 50 service traffic Support packet filtration of L2~L7 even deep to 80 bytes of IP packet head
	QoS	Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark CAR(Committed Access Rate)、Traffic Shaping and flow statistics Packet mirror and redirection of interface and self-defined flow Super queue scheduler based on port and self-defined flow. Each port/ flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR. Congestion avoid mechanism, including Tail-Drop and WRED
	Multicast	IGMPv1/v2/v3 、IGMPv1/v2/v3 Snooping IGMP Filter MVR and cross VLAN multicast copy IGMP Fast leave IGMP Proxy PIM-SM/PIM-DM/PIM-SSM PIM-SMv6、PIM-DMv6、PIM-SSMv6 MLDv2/MLDv2 Snooping
	MPLS	NPLS LDP
Reliability	Loop protection	EAPS and GERP (recover-time <50ms) Loopback-detection
	Link protection	FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms) BFD
	Device protection	VRRP host backup Double fault-tolerant backup of host program and configuration files 1+1 power hot backup

Maintenance	Network maintenance	Telnet-based statistics RFC3176 sFlow、LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device management	Command-line interface（CLI），Console, Telnet and WEB configuration System configuration with SNMPv1/v2/v3 WEB management RMON (Remote Monitoring)1/2/3/9 groups of MIB NTP(Network Time Protocol)

Order Information

Product name	Product description
ARN1016G	16*PON ports, 4*GE Ports, 4*GE COMBO SFP, 2*10GE SFP+. double power supply , AC/DC/AC+DC can be customized.