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AD1E-0444
OLT

The Adopt AD1E-0444 OLT (Figure 1) is self-developed Compact 1U EPON OLT equipment,meeting the requirements of IEEE802.3 and meets the EPON OLT equipment requirements of YD/T 1945-2006 Technical requirements for access network — based on Ethernet Passive Optical Network (EPON) 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.

The AD1E-0444 OLT provides 4 *Downstream 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. AD1E-0444 is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

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Product Specification

Network interface	
EPON interface	4 x EPON (1.25/1.25 Gbps)
Uplink Optical Interface	2 x GE SFP + 2 x 10GE SFP+
Uplink Ethernet Interface	4 x RJ-45
PON interface	
EPON	IEEE 802.3
Local Management interface	
Console	RJ-45 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 0 to 45°C, rel. humidity 10–90% (non-condensing)
Physical specifications	
Dimensions	442mm*227mm*44mm (W * D *H)
Weight	< 3.0 KG

Key Feature Support

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

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Key Feature Support

Service features

Multicast	IGMPv1/v2/v3 IGMP Snooping/Proxy IGMP filtering
Routing	BGP MPLS RIP
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

Security features

User security	Anti-ARP-spoofing deceive defend Anti-ARP-flooding flooding attack automatic control IP, MAC, port and VLAN binding
Device security	Defend DOS attack Security IP login through Telnet Hierarchical management and password protection of users
Network security	IP address、VLAN ID、MAC address and port manual binding Network management 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 managment,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

AD 1E 0444	4*EPON, 4*GE port, 2*GE SFP, 2*10G SFP+,Pluggable Dual Power Supply