AK-G3000-8P GPON Cassette OLT

General description

AK-G3000-8P cassette OLT provides 8 downstream GPON ports, 8 uplink GE optical ports and 8 GE electrical ports, with an expansion slot, which can access 2 10GE SFP+ ports. The 1U height can be easy installed and maintained to save space. The AK-G3000-P series adopts the industrial advanced technology, with powerful Ethernet services and QoS feature, supporting SLA and DBA. The splitting ratio up to 1:128, supporting different types of ONU in different networks, minimizing operators' investments.

Product Features

Attributes	AK-G3000-8P
Switching capacity	102Gbps
Throughput (IPv4/IPv6)	75.88MPPS
Ports	8*PON port，8*GE FX+8*GE TX，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	≤85W
Outline dimensions (mm) (W*D*H)	440mm×44mm×380mm
Weight (in maximum configuration)	≤3kg
Environmental requirements	Working temperature：-15°C～55°C Storage temperature：-40°C～70°C Relative humidity：10%～90%，no condensing

Business Features:

Attributes		AK-G3000-8P
PON features	GPON	Satisfy ITU -T standard TR-101 compliant solution for FTTx OLT applications High splitter rate, each PON port supports 128*ONU,384*T-CONT Maximum transmission distance of 20KM,Maximum logic distance 60KM Support uplink FEC, downlink FEC (Forward Error Correction) ONU identifier authentication:　SN /SN+PASSWD Bandwidth allocation mechanism 5 types of T-CONT bandwidth Static Bandwidth Allocation Dynamic Bandwidth Allocation GPON feature parameter 4096 port-IDs per GPON MAC (Downstream and Upstream) 1024 Alloc -IDs per GPON MAC (Upstream)
L2 features	MAC	MAC Black Hole Port MAC Limit
	VLAN	4K VLAN entries Port-based/MAC-based/IP subnet-based VLAN Port-based QinQ and Selective QinQ (StackVLAN) VLAN Swap and VLAN Remark and VLAN Translate GVRP Based on ONU service flow VLAN add, delete, replace
	Spanning tree protocol	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)
	Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring and traffic mirroring
Security features	User security	Anti-ARP-spoofing Anti-ARP-flooding IP Source Guard create IP+VLAN+MAC+Port binding Port Isolation MAC address binds to port and port MAC address filtration IEEE 802.1x and AAA/Radius authentication TACACS+ authentification dhcp anti-attack flood attack automatic suppression ONU isolation control
	Device security	Anti-DOS attack(such as ARP，Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack SSHv2 Secure Shell SNMP v3 encrypted management Security IP login through Telnet Hierarchical management and password protection of users
	Network	User-based MAC and ARP traffic examination

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	security	Restrict ARP traffic of each user and force-out user with abnormal ARP traffic
		Dynamic ARP table-based binding
		Supports IP+VLAN+MAC+Port binding
		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,RIP,OSPF

Purchase Information:

Model	Product description
AK-G3000-8P	GPON Cassette OLT (8 downlink GPON ports, 8 uplink GE Combo ports)

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