AsterNOS Feature List-Campus Version

Level1	Level2	Level3		AC5X	AC5Y	ALD2	Armstrong	ALD3	FALCON
				✓(Support) ×(Not Support)					
Interface	Speed	RJ45	1G/100M	✓	✓	✗	✗	✗	✗
		SFP/SFP+/SFP28	1G/10G/25G	✓	✓	✓	✓	✓	✓
		QSFP28	40G/100G	✗	✗	✓	✓	✓	✓
	Shutdown	no shutdown		✓	✓	✓	✓	✓	✓
		shutdown		✓	✓	✓	✓	✓	✓
	Interface Statistics	Packet & Byte Counters		✓	✓	✓	✓	✓	✓
		Error Counters		✓	✓	✓	✓	✓	✓
		IPv4/IPv6 Counters		✓	✓	✓	✓	✓	✓
		Rate Statistics		✓	✓	✓	✓	✓	✓
	Startup delay			✓	✓	✓	✓	✓	✓
	Optical module information			✓	✓	✓	✓	✓	✓
	Batch interface configuration			✓	✓	✓	✓	✓	✓
	PoE			✓	✓	✗	✗	✗	✗
Layer 2	MAC	Static MAC		✓	✓	✓	✓	✓	✓
		Dynamic MAC learning		✓	✓	✓	✓	✓	✓
		MAC Aging		✓	✓	✓	✓	✓	✓
		MAC limit per port		✓	✓	✓	✓	✓	✓
		MAC Blacklist		✓	✓	✓	✓	✓	✓
		MAC Flapping		✓	✓	✓	✓	✓	✓
		MAC learning priority		✓	✓	✓	✓	✓	✓
		MAC-address sticky		✓	✓	✓	✓	✓	✓
	VLAN	VLAN mode	untag/tag	✓	✓	✓	✓	✓	✓
		Batch VLAN configuration	vlan-group	✓	✓	✓	✓	✓	✓
			batch-vlan	✓	✓	✓	✓	✓	✓
	QinQ	Basic QinQ		✓	✓	✓	✓	✓	✓
		Flexible QinQ		✓	✓	✓	✓	✓	✓
	VLAN mapping			✓	✓	✓	✓	✓	✓
	VoiceVLAN			✓	✓	✓	✓	✓	✓
	LAG	Static LAG		✓	✓	✓	✓	✓	✓
		LACP		✓	✓	✓	✓	✓	✓
	MSTP	MSTP/RSTP/STP		✓	✓	✓	✓	✓	✓
		BPDU Filter		✓	✓	✓	✓	✓	✓
		BPDU Guard		✓	✓	✓	✓	✓	✓
	LLDP			✓	✓	✓	✓	✓	✓
	Loopback Detection			✓	✓	✓	✓	✓	✓
	Port isolation			✓	✓	✓	✓	✓	✓
	L2TP (Layer 2 Tunneling Protocol)	Layer 2 protocols supported for transparent tunneling: STP, LACP, PVSTP, CDP		✓	✓	✓	✓	✓	✓
Layer 3	IP Interface	IPv4 interface	router-interface	✓	✓	✓	✓	✓	✓
		IPv6 interface		✓	✓	✓	✓	✓	✓
		Sub-interface	VLANIF	✓	✓	✓	✓	✓	✓
	ARP			✓	✓	✓	✓	✓	✓
	NDP			✓	✓	✓	✓	✓	✓
	IPv6	SLAAC		✓	✓	✓	✓	✓	✓
	DHCP	DHCP Server v4/v6	DHCP option82	✓	✓	✓	✓	✓	✓
		DHCP Relay v4/v6		✓	✓	✓	✓	✓	✓
	VRF			✓	✓	✓	✓	✓	✓
IP Unicast Routing	Static Route	IPv4 route		✓	✓	✓	✓	✓	✓
		IPv6 route		✓	✓	✓	✓	✓	✓
		Blackhole route		✓	✓	✓	✓	✓	✓
	Policy-based Routing	Route traffic based on source/destination IP, port, or protocol		✓	✓	✓	✓	✓	✓
		Setting nexthop		✓	✓	✓	✓	✓	✓
IP Multicast Routing	IGMP Snooping	version	v1/v2/v3	✓	✓	✓	✓	✓	✓
		Static IGMP Snooping		✓	✓	✓	✓	✓	✓
		Dynamic IGMP Snooping		✓	✓	✓	✓	✓	✓
		Fast leave		✓	✓	✓	✓	✓	✓
		Snooping entry limit		✓	✓	✓	✓	✓	✓
		IGMP Snooping querier		✓	✓	✓	✓	✓	✓
		IGMP Snooping Porxy		✓	✓	✓	✓	✓	✓
	Multicast VLAN								
	MLD Snooping	MLD Snooping version	v1/v2	✓	✓	✓	✓	✓	✓
		Static IGMP Snooping		✓	✓	✓	✓	✓	✓
		Dynamic IGMP Snooping		✓	✓	✓	✓	✓	✓
		Fast leave		✓	✓	✓	✓	✓	✓
		Snooping entry limit		✗	✗	✓	✓	✓	✓
		MLD Snooping querier		✓	✓	✓	✓	✓	✓
		MLD Snooping Porxy		✓	✓	✓	✓	✓	✓
MPLS	MPLS	MPLS Forwording		✓	✓	✓	✓	✓	✓
		LDP		✓	✓	✓	✓	✓	✓
		MPLS QoS		✓	✓	✓	✓	✓	✓
	VPN	VPWS		✓	✓	✓	✓	✓	✓
		VPLS		✓	✓	✓	✓	✓	✓
		MPLS L3VPN		✓	✓	✓	✓	✓	✓
Security	Broadcast Suppression	Unknown unicast control		✓	✓	✓	✓	✓	✓
		Broadcast control		✓	✓	✓	✓	✓	✓
		Multicase control		✓	✓	✓	✓	✓	✓
	Storm Control	Unknown unicast control		✓	✓	✓	✓	✓	✓
		Broadcast control		✓	✓	✓	✓	✓	✓
		Multicase control		✓	✓	✓	✓	✓	✓
	CoPP			✓	✓	✓	✓	✓	✓
	ACL	Standard ACL		✓	✓	✓	✓	✓	✓
		Extended ACL		✓	✓	✓	✓	✓	✓
		VLAN-based ACL		✓	✓	✓	✓	✓	✓
	DHCP Snooping v4/v6			✓	✓	✓	✓	✓	✓
	ND Snooping			✓	✓	✓	✓	✓	✓
	RA Guard			✓	✓	✓	✓	✓	✓
	SAVI			✓	✓	✓	✓	✓	✓
	DAI (Dynamic ARP Inspection)			✓	✓	✓	✓	✓	✓
	IPSG v4/v6			✓	✓	✓	✓	✓	✓
	uRPF	Strict		✓	✓	✓	✓	✓	✓
		Loose		✓	✓	✓	✓	✓	✓
Management Security	AAA	Authentication	TACACS+ Radius	✓	✓	✓	✓	✓	✓
		Authorization		✓	✓	✓	✓	✓	✓
		Fail through		✓	✓	✓	✓	✓	✓
		Fail back		✓	✓	✓	✓	✓	✓
	ACL for management plane			✓	✓	✓	✓	✓	✓
High Availability	BFD	OSPF		✓	✓	✓	✓	✓	✓
		BGP		✓	✓	✓	✓	✓	✓
		Static Route		✓	✓	✓	✓	✓	✓
	HW BFD	BGP		✓	✓	✓	✓	✓	✓
	Priority	Trust dscp				✓	✓		
		Trust CoS		✓	✓	✓	✓	✓	✓
	Classification	L2–L4 classification		✓	✓	✓	✓	✓	✓
		CoS/DSCP remarking		✓	✓	✓	✓	✓	✓

Category	Sub-category	Feature	Detail						
QoS	Policing&Shaping	Port-based rate limiting		✓	✓	✓	✓	✓	✓
		ACL-based rate limiting		✓	✓	✓	✓	✓	✓
		remoark/fwd/drop		✓	✓	✓	✓	✓	✓
	Scheduling	DWRR		✓	✓	✓	✓	✓	✓
		SP		✓	✓	✓	✓	✓	✓
Management & Monitoring	Mirror	SPAN	SPAN	✓	✓	✓	✓	✓	✓
		RSPAN	RSPAN	✓	✓	✓	✓	✓	✓
	SNMP	Version	v1/v2/v3	✓	✓	✓	✓	✓	✓
		MIBs	Standed MIBs	✓	✓	✓	✓	✓	✓
			Private MIBs	✓	✓	✓	✓	✓	✓
	NTP			✓	✓	✓	✓	✓	✓
	sFlow			✓	✓	✓	✓	✓	✓
	PTP	profile	smpte-2059-2	✓	✓	✓	✓	✓	✓
			1588v2	✓	✓	✓	✓	✓	✓
			ITU-T G.8275.1	✓	✓	✓	✓	✓	✓
			ITU-T G.8275.2	✓	✓	✓	✓	✓	✓
		Clock roles	bc	✓	✓	✓	✓	✓	✓
			oc	✓	✓	✓	✓	✓	✓
			tc	✓	✓	✓	✓	✓	✓
			t-gm	✓	✓	✓	✓	✓	✓
			t-bc	✓	✓	✓	✓	✓	✓
			t-bc-p	✓	✓	✓	✓	✓	✓
			t-tsc	✓	✓	✓	✓	✓	✓
			t-tsc-p	✓	✓	✓	✓	✓	✓
		Time Synchronization	one-step	✓	✓	✓	✓	✓	✓
			two-step	✓	✓	✓	✓	✓	✓
		PTP mode	E2E	✓	✓	✓	✓	✓	✓
			P2P	✓	✓	✓	✓	✓	✓
		BMCA	clock-accuracy	✓	✓	✓	✓	✓	✓
		Transport&Layer	L2	✓	✓	✓	✓	✓	✓
			L3	✓	✓	✓	✓	✓	✓
	SyncE			✓	✓	✓	✓	✓	✓
	Syslog	Syslog		✓	✓	✓	✓	✓	✓
		Rsyslog		✓	✓	✓	✓	✓	✓
	CLI	Console		✓	✓	✓	✓	✓	✓
		Telnet	SSH	✓	✓	✓	✓	✓	✓
		SSHv2		✓	✓	✓	✓	✓	✓
	ZTP			✓	✓	✓	✓	✓	✓
	License			✓	✓	✓	✓	✓	✓
	Netconf/YANG			✓	✓	✓	✓	✓	✓
	Restconf/YANG			✓	✓	✓	✓	✓	✓
	TFTP/FTP			✓	✓	✓	✓	✓	✓
	Alarm			✓	✓	✓	✓	✓	✓