

ENOS SOFTWARE FEATURES LIST (ETHERNEXION UNIFIED NETWORK OPERATING SYSTEM)

Version: V1.5

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Overview

ENOS (ETHERNEXION Network Operating System) is the unified, high-performance core powering the entire ETHERNEXION switch portfolio. Backed by over a decade of proven commercial deployment, ENOS features an advanced modular architecture that ensures seamless hardware decoupling and exceptional flexibility. Through quarterly release cycles, we deliver continuous feature enhancements and optimizations, ensuring your network remains resilient and high-performing in an ever-evolving digital landscape.

keywords

- Unified Software Ecosystem: A single, consistent software platform powering the entire product portfolio for seamless management.
- Field-Proven Reliability: Over 10 years of rigorous iteration and extensive commercial deployment in diverse network environments.
- Modular Architecture: A highly flexible, component-based design that allows for precise feature pruning and rapid hardware porting.
- Decade of Innovation: Continuous evolution through 10+ years of real-world feedback and systematic code refinement.

Features List table

Tips for reading:

○-support X- nonsupport

EB - Basic license, with Layer2 features and few Layer3 features

MS - Advanced license with Full layer3 features exclude MPLS

MA - Premium license with Full layer3 features include MPLS

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Ethernet basic features	Ethernet	Interface	Ethernet interface operating modes(full duplex, half duplex, and auto-negotiation)	○	○	○	
			Ethernet interface operating rates	○	○	○	
			Jumbo Frame	○	○	○	
			port-xconnect	○	○	○	
		Flow-control	Flow-control tx/rx	○	○	○	

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Ethernet basic features	Ethernet	Storm-control	Port based storm-control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			VLAN based storm-control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Port-block	Port-block(know/unknown unicast; know/unknown multicast/broadcast)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Port-isolate	L2/L3/All Port-isolate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Uni-direction isolate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		L2 Protocol Tunnel	L2 Protocol Tunnel(support CFM/DOT1X/SLOW-PROTO/STP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Forward mode	Store-and-forward	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Cut-through	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		VLAN Access mode	Access/Trunk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Default VLAN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	VLAN Classification	VLAN Classification(port based/mac based/IP based/protocol based)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	VLAN	QinQ	Basic QinQ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Selective QinQ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			VLAN Mapping(1:1 VLAN Translation)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		VLAN Statistics	VLAN Statistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Private VLAN	Private VLAN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Voice VLAN	Voice VLAN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	Guest VLAN	Guest VLAN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	MAC	MAC Address Table	Automatic learning and aging of MAC addresses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Hardware Learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Static and dynamic MAC address entries			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Blackhole MAC			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

Type	Sub Type	Feature	Description	EB	MS	MA	Remark	
Ethernet basic features	MAC	MAC Flapping detect	MAC Flapping detect	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		Port Bridge	Port Bridge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	LAG	Link aggregation	Static-LAG & LACP	Static-LAG & LACP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG load balance(SLB)	LAG load balance(SLB)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG load balance(DLB)	LAG load balance(DLB)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG load balance(RR)	LAG load balance(RR)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG Self-healing	LAG Self-healing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Link aggregation weighting	Link aggregation weighting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Ethernet Ring protection features	xSTP	STP	Spanning-Tree Protocol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		RSTP	Rapid Spanning-Tree Protocol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		MSTP	Multi-instance Spanning-Tree Protocol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		BPDU Filter/Guard	BPDU Filter/Guard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
	Spanning-Tree Protocol Protection		Root Guard	Root Guard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Loop Guard	Loop Guard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Anti TC-BPDU attack	Anti TC-BPDU attack	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	ERPS	ERPS	Single ERPS ring	Single ERPS ring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			tangent ERPS rings	tangent ERPS rings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			intersecting ERPS rings	intersecting ERPS rings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			compatible with RRPP	compatible with RRPP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Loop back Detect	Loop back Detect	Loop back detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Layer2 Multicast	Layer2 Multicast	IGMP Snooping	IGMPv1/v2/v3 Snooping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Fast leave	Fast leave	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Static IGMP snooping group	Static IGMP snooping group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	MVR	MVR(Multicast VLAN Registration)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
IPv4 Forwarding	ARP	ARP	Static and dynamic ARP entries	○	○	○	
			Aging of ARP entries	○	○	○	
			Gratuitous ARP	○	○	○	
		ARP proxy	basic ARP-Proxy	○	○	○	
			local ARP-Proxy	○	○	○	
			IPv4 Static Routes	○	○	○	
	IPv4 Static Routes	Black hole Routes	○	○	○		
		co-work with IP SLA	○	○	○		
		VRF(Virtual Routing and Forwarding)	○	○	○		
		uRPF check	○	○	○		
		RIP	RIPv1/v2	○	○	○	
	OSPFv2	OSPFv2	X	○	○		
	IS-IS	IS-IS	X	○	○		
	IPv4 Unicast Routing	BGP	IBGP	X	○	○	
			EBGP	X	○	○	
		Route policy	Route-map	○	○	○	
			IPv4 prefix-list	○	○	○	
		PBR	PBR(Policy-based Routing)	○	○	○	
		ICMP	ICMP redirect	○	○	○	
			ICMP unreachable	○	○	○	
		ECMP	ECMP(SLB)	○	○	○	
			ECMP(DLB)	○	○	○	
			ECMP(RR)	○	○	○	
	ECMP Self-healing		○	○	○		
	IPv4 Multicast Routing	IGMP	IGMPv1/v2/v3	○	○	○	
			IGMP-Proxy	○	○	○	
			IGMP SSM Mapping	○	○	○	
		PIM	PIM-SM	X	○	○	
			PIM-DM	X	○	○	

Type	Sub Type	Feature	Description	EB	MS	MA	Remark	
IPv6 Forwarding	IPv6 Basic Protocol	ICMPv6	ICMPv6	X	○	○		
		NDP	NDP	X	○	○		
	IPv6 Unicast Routing	IPv6 Static Routes	IPv6 Static Routes	X	○	○		
		RIPng	RIPng	X	○	○		
		OSPFv3	OSPFv3	X	○	○		
		IS-IS	IS-IS	X	○	○		
	IPv6 Multicast Routing	BGP4+	BGP4+	X	○	○		
		MLD v1/v2	MLD v1/v2	X	○	○		
		MLD v1/v2 Snooping	MLD v1/v2 Snooping	X	○	○		
		MVR6	MVR6	X	○	○		
	IP Tunnel	PIM-SM v6	PIM-SM v6	X	○	○		
		IPv6 over IPv4 Tunnel	IPv6 over IPv4 Tunnel	IPv6 over IPv4 Tunnel	X	○	○	
			6to4 Tunnel	6to4 Tunnel	X	○	○	
	ISATAP Tunnel		ISATAP Tunnel	X	○	○		
	IPv6 Service	DHCPv6	DHCPv6 Relay	X	○	○		
DHCPv6 Snooping			X	○	○			
IPv6 Prefix List		IPv6 Prefix-list	X	○	○			
Device reliability features	BFD	BFD	BFD for Static route	X	○	○		
			BFD for OSPFv2	X	○	○		
			BFD for VRRP/Track	X	○	○		
			BFD for PBR	X	○	○		
	VRRP	VRRP	VRRP	○	○	○		
			Track for VRRP	○	○	○		
	Smart Link	Smart Link	multi-instance	○	○	○		
			load balance	○	○	○		
			Multi-Link	○	○	○		
			Monitor-link	○	○	○		

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Device reliability features	MLAG	MLAG	MLAG basic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			MLAG orphan Port	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Stacking	Stacking	Maximum number of stacked devices: 8 Stack port: Any port or AGG	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*1
Ethernet OAM	EFM	EFM (802.3ah)	Auto detection	X	<input type="radio"/>	<input type="radio"/>	
			Network fault detection	X	<input type="radio"/>	<input type="radio"/>	
			Network fault handle	X	<input type="radio"/>	<input type="radio"/>	
			remote loop back	X	<input type="radio"/>	<input type="radio"/>	
	CFM	CFM (802.1ag)	Hardware CCM detect	X	<input type="radio"/>	<input type="radio"/>	
			MAC Ping	X	<input type="radio"/>	<input type="radio"/>	
			MAC Trace	X	<input type="radio"/>	<input type="radio"/>	
	Y.1731	Y.1731	Loss measure(LM)	X	<input type="radio"/>	<input type="radio"/>	*2
Latency and Jitter measure			X	<input type="radio"/>	<input type="radio"/>		
PoE features	PoE	System Power management	Power supply on-spot detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Power supply capability detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Power capability auto configuration (PSE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Power Supply Management	Legacy PD detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			PD max power management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			PD priority management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Power Supply Task Plan management(Not ready)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			PD Mandatory power supply	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			PSE log	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			operations management	PSE Chipset temperature inquire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PSE firmware update	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>			

Type	Sub Type	Feature	Description	EB	MS	MA	Remark	
QoS features	QoS	Traffic classification	Traffic classification based on COS/DSCP (simple classification)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Traffic classification based on ACL (complex classification)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Traffic classification based on inner header of the tunnel packets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		Traffic behaviors	Queue scheduling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Remark the priority fields(COS/DSCP) of the packet based on ACL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Remark the priority fields(COS/DSCP) of the packet based on Table Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Flow redirection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Flow mirror	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Traffic policing	Traffic policing based on direction(in/out) of Port	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				Traffic policing based on direction(in/out) of VLAN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				Traffic policing based on direction(in/out) of flow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				Traffic policing based on direction(in/out) of aggregated flow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Traffic shaping	Queue based traffic shaping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Port based traffic shaping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		Congestion management	SP(Strict Priority)scheduling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			WDRR(Weighted Deficit Round Robin)scheduling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*3	
			SP + WDRR mixed scheduling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*4	

Type	Sub Type	Feature	Description	EB	MS	MA	Remark		
QoS features	QoS	Congestion avoidance	TD(Tail Drop)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			WRED(Weighted Random Early Detection)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
		Traffic statistics	Packet counts and bytes statistics based on traffic classification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			Packet counts and bytes statistics based on the color after traffic policing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			Forwarded and discarded packet counts and bytes statistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
		ECN (Explicit congestion notification)	ECN tags based on Tail Drop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*5		
			ECN tags based on WRED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
		Data Center	VARP	Virtual gateway	VARP(Virtual-ARP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
					VARP subnet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Tunnel	VxLAN	Manual configure VxLAN tunnel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
VxLAN distributed gateway	<input type="radio"/>				<input type="radio"/>	<input type="radio"/>			
VxLAN active-active access	<input type="radio"/>				<input type="radio"/>	<input type="radio"/>			
Interconnect across Data Centers based on VxLAN	<input type="radio"/>				<input type="radio"/>	<input type="radio"/>			
Edit DSCP in VxLan outer header	<input type="radio"/>				<input type="radio"/>	<input type="radio"/>			
BGP EVPN	X				<input type="radio"/>	<input type="radio"/>			
Support to enable/disable overlay split horizon per-VNI	<input type="radio"/>				<input type="radio"/>	<input type="radio"/>			
GRE Tunnel	GRE Tunnel				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
NVGRE Tunnel	NVGRE Tunnel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
GENEVE Tunnel	GENEVE Tunnel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Data Center	DCB	DCBX	LLDP support DCBX TLV	○	○	○	
		PFC	PFC	○	○	○	
Metro Feature	MPLS	LDP	LDP	X	X	○	
		MPLS Forwarding	MPLS Forwarding	X	X	○	
		VPWS	VPWS (L2VPN)	X	X	○	
		VPLS	VPLS (L2VPN)	X	X	○	
		L3VPN	L3VPN	X	X	○	
		MPLS OAM	MPLS OAM	X	X	○	
		MPLS Stats	MPLS Stats	X	X	○	
		ACL	ACL	X	X	○	
		Qos	Qos	X	X	○	
		Security and management	System Security	SSH	SSHv1/v2	○	○
RSA Key generation	○				○	○	
RADIUS	RADIUS			○	○	○	
TACAS+	TACAS+			○	○	○	
AAA	Authentication			○	○	○	
	Authorization			○	○	○	
	Accounting			○	○	○	
Dot1x	Port based dot1x			○	○	○	
	MAC based dot1x			○	○	○	
	Guest VLAN			○	○	○	
	MAC/IP ACL			○	○	○	
	Basic Mode ACL			○	○	○	
ACL	Port-group ACL			○	○	○	
	VLAN-group ACL			○	○	○	
	IPv6 ACL			○	○	○	
	ACL UDF			○	○	○	
	Time Range			○	○	○	
ARP Inspection	ARP Inspection			○	○	○	

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Security and management	System Security	IP Source Guard	IP Source Guard	○	○	○	
		Port Security	Limitation on MAC address learning on interface	○	○	○	
		VLAN Security	Limitation on MAC address learning on VLAN	○	○	○	
		Control Plane Policy (COPP)	Black list/wihte list	○	○	○	
			Rate limit	○	○	○	
		CPU Traffic Limit	CPU Traffic Limit	○	○	○	
		Prevent DDOS attack	Prevent DDOS attack (ICMP Flood/Smurf/Fraggle/LAN D/SYN Flood)	○	○	○	
		Login filter	Telnet/SSH ACL filtering	○	○	○	
			Telnet/SSH IPv6 ACL filtering	○	○	○	
		MAC Security	MacSec(802.1AE)	○	○	○	*6
	Link-Flapping detection	Link-Flapping detection	○	○	○		
	Network Management	DHCP	DHCP Server	○	○	○	
			DHCP Relay	○	○	○	
			DHCP Snooping	○	○	○	
			DHCP Client	○	○	○	
			DHCP Option82	○	○	○	
			DHCP Option252	○	○	○	
		RMON	RMON	○	○	○	
sFlow		sFlow v4/v5	○	○	○		
IP SLA		IP SLA	○	○	○		
IPFIX		IPFIX	○	○	○		
EFD	Elephant Flow Detection	○	○	○	*7		
NTP	NTP(Network Time Protocol)	○	○	○			

Type	Sub Type	Feature	Description	EB	MS	MA	Remark	
Security and management	Network Management		TC (Support P2P/E2E、Ethernet/Udp Transport)	○	○	○		
		PTP (IEEE 1588)	BC/OC(Support OneStep/TwoStep、Request-response/Peer-delay Ethernet/Udp Transport)	○	○	○		
		Err-disable	Err-disable detection and recovery	○	○	○		
		DNS	Static DNS Client	○	○	○		
		LLDP	LLDP	○	○	○		
	Command Line Interface	Configurations through CLI (Command Line Interface)	○	○	○			
	Terminal Services	Help information	Banner configuration	○	○	○		
			Help information in English	○	○	○		
		Terminal service	Vty Terminal service	○	○	○		
			Console Terminal service	○	○	○		
		Management interface	In-band management interface and configuration	○	○	○		
	Out-band management interface and configuration		○	○	○			
	Configuration and maintenance	Configuration Management	SNMP	Network management based on SNMPv1/v2c/v3	○	○	○	
				Public and private MIB	○	○	○	
			Public and private Trap	○	○	○		
WEB		Configuration and management based on WEB UI	○	○	○			
Cloud Management			Automatic device connection management	○	○	○	*8	
			Zero-configuration deployment	○	○	○		

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Configuration and maintenance	Configuration Management		Automatic network topology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Network monitoring and alarm notification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		Cloud Management	Configuration and one-click rollback	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*8	
			Cross-network tunneling connection to network device(web/ssh/telnet)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Scheduled tasks deployment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		RPC-API	Configuration and management based on RPC-API	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		Smart Config	Smart Config(Automatically configuration when system start)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		system profile configuration	change the system specifications by choose different STM Profiles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		Restore factory default configuration	Restore factory default configuration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		File System	File system	File system(support directory and file management)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Upload and download	Upload and download files through FTP or TFTP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				Upload and download files through Xmodem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Debugging And Maintenance	Debug	per-module Debug features	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
				ICMP Debug	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	BHM		Software process monitor: BHM(Beat Heart Monitor)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
			Hardware Watch Dog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Configuration and maintenance	Log & alarm		CPU usage display and alarm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Memory usage display and alarm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Device temperature, PSU, FAN, status display and alarm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			User operation logs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Management of logs, alarms, and debugging information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		VCT	VCT(Virtual Cable Test)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		system diagnostics	Detailed Diagnostic-information collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Reboot		Manual reboot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Schedule Reboot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Reboot Information logging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	network diagnostics		Ping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			IPv6 Ping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Trace route	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	mirror		Port mirror	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Flow mirror	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Remote mirror	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Multi-destination mirror(m:n)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Use CPU as mirror source	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Use CPU as mirror destination and analyze packet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		ERSPAN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		CPU statistics	To CPU/From CPU packets statistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Configuration and maintenance	Debugging And Maintenance	L2 Ping	layer2 network connectivity detection - L2Ping (MAC Ping/Trace)	○	○	○	
		UDLD	UDLD(Unidirectional Link Detection)	○	○	○	
		unidirectional	unidirectional forwarding of the fiber	○	○	○	
		Loop back	port loop back	○	○	○	
			hardware loop back(internal/external)	○	○	○	
	System time	Time configuration	○	○	○		
		Timezone	○	○	○		
	Software	System software upgrate	Update via TFTP	○	○	○	
	upgrate	Uboot upgrate	Uboot upgrate	○	○	○	

Remark:

- *1. Due to certain business strategies, the stacking feature may require an additional license to activate.
- *2. Loss measure(LM) is not available on S7 and S9 series products..
- *3. WDRR(Weighted Deficit Round Robin)scheduling is not available on S9 series products..
- *4. SP + WDRR mixed scheduling is not available on S9 series products..
- *5. ECN tags based on Tail Drop is not available on S9 series products..
- *6. MacSec(802.1AE) is not available on S7 series products.
- *7. Elephant Flow Detection is not available on S7 series products..
- *8. Cloud Management feature needs to be used with the DHCS Cloud Management system. DHCS can be deployed on public clouds or in a private environment.

Supported MIB

- RFC 1155 SMI
 - RFC 1157 SNMPv1
 - RFC 1212, RFC 1213, RFC 1215 MIB-II, Ethernet-Like MIB and TRAPs
 - RFC 1493 Bridge MIB
 - RFC 1643 Ethernet MIB
 - RFC 1657 BGP-4 MIB
 - RFC 1724 RIPv2 MIB
 - RFC 1850 OSPFv2 MIB
 - RFC 1905 RFC 1907 SNMP v2c, SMIv2 and Revised MIB-II
 - RFC 2011 SNMPv2 for Internet Protocol using SMIv2
 - RFC 2012 SNMPv2 for transmission control protocol using SMIv2
 - RFC 2013 SNMPv2 for user datagram protocol using SMIv2
 - RFC 2096 IPv4 Forwarding Table MIB
 - RFC 2287 System Application Packages MIB
 - RFC 2570–2575 SNMPv3, user-based security, encryption and authentication
 - RFC 2576 Coexistence between SNMP Version 1, Version 2 and Version 3
 - RFC 2578 SNMP Structure of Management Information MIB
 - RFC 2579 SNMP Textual Conventions for SMIv2
 - RFC 2665 Ethernet-like interface MIB
 - RFC 2819 RMON MIB
 - RFC 2863 Interface Group MIB
 - RFC 2863 Interface MIB
 - RFC 3413 SNMP Application MIB
 - RFC 3414 User-based Security model for SNMPv3
 - RFC 3415 View-based Access Control Model for SNMP
 - RFC 4188 STP and Extensions MIB
 - RFC 4363 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and VLAN extensions
 - Draft – blumenthal – aes – usm - 08
 - Draft – reeder - snmpv3 – usm - 3desede -00
 - Draft-ietf-idmr-igmp-mib-13
-

Supported RFC

- RFC 826 ARP
- RFC 854 Telnet client and server
- RFC 894 IP over Ethernet
- RFC 906 TFTP Bootstrap
- RFC 1027 Proxy ARP
- RFC 1058 RIP v1
- RFC 1112 IGMP v1
- RFC 1122 Host Requirements
- RFC 1195 Use of OSI IS-IS for Routing in TCP/IP and Dual Environments (TCP/IP transport only)
- RFC 1492 TACACS+RFC 1519 CIDR
- RFC 1587 OSPF NSSA Option
- RFC 1591 DNS
- RFC 1812 Requirements for IP Version 4 Routers
- RFC 2030 SNTP, Simple Network Time Protocol
- RFC 2068 HTTP server
- RFC 2080 RIPng for IPv6
- RFC 2131 BOOTP/DHCP relay agent and DHCP server
- RFC 2138 RADIUS Authentication
- RFC 2139 RADIUS Accounting
- RFC 2154 OSPF w/Digital Signatures (password, MD-5)
- RFC 2236 IGMP v2
- RFC 2267 Network Ingress Filtering
- RFC 2328 OSPF v2 (edge-mode)
- RFC 2338 VRRP
- RFC 2362 PIM-SM (edge-mode)
- RFC 2370 OSPF Opaque LSA Option
- RFC 2453 RIP v2
- RFC 2460 Internet Protocol, Version 6 (IPv6) Specification
- RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)

Supported RFC (The End)

- RFC 2463 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
 - RFC 2464 Transmission of IPv6 Packets over Ethernet Networks
 - RFC 2474 DiffServ Precedence, including 12 queues/port
 - RFC 2475 DiffServ Core and Edge Router Functions
 - RFC 2526 Reserved IPv6 Subnet Anycast Addresses
 - RFC 2597 DiffServ Assured Forwarding (AF)
 - RFC 2598 DiffServ Expedited Forwarding (EF)
 - RFC 2740 OSPF for IPv6
 - RFC 3176 sFlow
 - RFC 3376 IGMP v3
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About ETHERNEXION:

ETHERNEXION - A technology-oriented company specializing in the development of ethernet switch products. EtherNexion is headquartered in Singapore, with a manufacturing base in Thailand and a business expansion office in India. With the continuous evolution of technology, ETHERNEXION has launched a range of differentiated ethernet switch products. Currently, the company's product line covers a range from 1G to 800G and can be used in scenarios such as enterprise networks, carrier networks, data centers, and AI computing. Currently, the main cooperation model for the company is OEM/ODM, dedicated to providing customers with flexible and end-to-end customized products and technical consulting services. Becoming the most trusted business partner for customers has always been the company's mission and principle.

Contact us:

ETHERNEXION NETWORKS PTE. LTD,

Singapore headquarter:

7500A BEACH ROAD #04-307 THE PLAZA SINGAPORE 199591

Corporate and Sales Email: business@ethernexion.com

Website: www.ethernexion.com

Factories in Thailand:

41/20 moo.8 Bowin,Siracha,Chonburi,Thailand 20230