

HOS (HOHUNET OPERATING SYSTEM)

UNIFIED SWITCH SOFTWARE FEATURES LIST

Version: V1.5
Release Date: 2025/08/01

Overview

HOS, launched by HOHUNET, is a switch operating system, which is also an unified software platform used by all HOHUNET switches. HOS has experienced through commercial application test over 10 years. Its advanced modular flexible architecture offers good hardware decoupling capability. HOHUNET constantly iterates and releases an updated versions every quarter to fix bugs or update features, ensuring better adaptation to an ever-changing network environment.

keywords

- Accumulating and iterating over a span of 10 years.
- An unified Software Platform.
- Being verified in the extensive commercial network environment.
- The features are modularized, which allows for pruning, and the code can be easily ported for the same reason.

Features List table

Tips for reading:
EB-Basic license MS- Advanced license ○-support X- nonsupport

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	○	○	○	

HOS Platform Features List

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"/>	
			L2/L3/All Port-isolate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Port-isolate	Uni-direction isolate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			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	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"/>	
		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	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"/>	
		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"/>	

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Type	Sub Type Feature		Description	EB	MS	MA	Remark
Ethernet basic features	LAG	Link aggregation	Static-LAG & LACP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG load balance(SLB)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG load balance(DLB)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG load balance(RR)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			LAG Self-healing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			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"/>	
		Spanning-Tree Protocol Protection	BPDU Filter/Guard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Root Guard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Loop Guard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Anti TC-BPDU attack	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	ERPS	ERPS	Single ERPS ring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			tangent ERPS rings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			intersecting ERPS rings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			compatible with RRPP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Loop back Detect	Loop back Detect	<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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			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"/>	

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

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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	MLD v1/v2	MLD v1/v2	X	○	○	
		MLD v1/v2 Snooping	MLD v1/v2 Snooping	X	○	○	
		MVR6	MVR6	X	○	○	
		PIM-SM v6	PIM-SM v6	X	○	○	
	IP 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	○	○	○	
	MLAG	MLAG	MLAG basic	○	○	○	
			MLAG orphan Port	○	○	○	

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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"/>	*1
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"/>	
		operations management	PSE log	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			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"/>	
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"/>	

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QoS features		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"/>	
	QoS		SP(Strict Priority)scheduling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Congestion management	WDRR(Weighted Deficit Round Robin)scheduling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*2
			SP + WDRR mixed scheduling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*3
		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"/>	

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QoS features	QoS	ECN (Explicit congestion notification)	Forwarded and discarded packet counts and bytes statistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			ECN tags based on Tail Drop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*4
			ECN tags based on WRED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	VARP	Virtual gateway	VARP(Virtual-ARP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Data Center	Tunnel	VxLAN	VARP subnet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			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"/>
	DCB	DCBX	LLDP support DCBX TLV	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		PFC	PFC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Security and management	System Security	SSH	SSHv1/v2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			RSA Key generation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		RADIUS	RADIUS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		TACAS+	TACAS+	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		AAA	Authentication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Authorization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Accounting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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Security and management	System Security	Dot1x	Port based dot1x	○	○	○	
			MAC based dot1x	○	○	○	
			Guest VLAN	○	○	○	
		ACL	MAC/IP ACL	○	○	○	
			Basic Mode ACL	○	○	○	
			Port-group ACL	○	○	○	
			VLAN-group ACL	○	○	○	
			IPv6 ACL	○	○	○	
			ACL UDF	○	○	○	
			Time Range	○	○	○	
		ARP Inspection	ARP Inspection	○	○	○	
		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/LAND/SYN Flood)	○	○	○	
		Login filter	Telnet/SSH ACL filtering	○	○	○	
			Telnet/SSH IPv6 ACL filtering	○	○	○	
		MAC Security	MacSec(802.1AE)	○	○	○	*5
		Link-Flapping detection	Link-Flapping detection	○	○	○	
	Network Management	DHCP	DHCP Server	○	○	○	
			DHCP Relay	○	○	○	
			DHCP Snooping	○	○	○	

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Configuration and maintenance		DHCP	DHCP Client	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			DHCP Option82	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			DHCP Option252	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		RMON	RMON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		sFlow	sFlow v4/v5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		IP SLA	IP SLA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		IPFIX	IPFIX	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		EFD	Elephant Flow Detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	*6
		NTP	NTP(Network Time Protocol)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		PTP (IEEE 1588)	TC (Support P2P/E2E、Ethernet/Udp Transport)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			BC/OC(Support OneStep/TwoStep、Request-response/Peer-delay Ethernet/Udp Transport)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Err-disable	Err-disable detection and recovery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		DNS	Static DNS Client	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		LLDP	LLDP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Terminal Services	Command Line Interface	Configurations through CLI (Command Line Interface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Help information	Banner configuration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Help information in English	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Terminal service	Vty Terminal service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Console Terminal service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Management interface	In-band management interface and configuration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Out-band management interface and configuration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Configuration	SNMP	Network management based on SNMPv1/v2c/v3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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Configuration and maintenance	Management	SNMP	Public and private MIB	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Public and private Trap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		WEB	Configuration and management based on WEB UI	<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	change the system specifications by configuration 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"/>	
		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"/>	

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Type	Sub Type	Feature	Description	EB	MS	MA	Remark
Configuration and maintenance	Debugging And Maintenance	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"/>	
		L2 Ping	layer2 network connectivity detection - L2Ping (MAC Ping/Trace)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		UDLD	UDLD(Unidirectional Link Detection)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		unidirectional	unidirectional forwarding of the fiber	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Loop back	port loop back	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			hardware loop back(internal/external)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		System time	Time configuration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
			Timezone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

HOS Platform Features List

Type	Sub Type	Feature	Description	EB	MS	MA	Remark
	Software	System software upgrade	Update via TFTP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	upgrade	Uboot upgrade	Uboot upgrade	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
MPLS	LDP	LDP	LDP	X	X	<input type="radio"/>	
	MPLS Forwarding	MPLS Forwarding	MPLS Forwarding	X	X	<input type="radio"/>	
	VPWS	VPWS	VPWS	X	X	<input type="radio"/>	
	VPLS	VPLS	VPLS	X	X	<input type="radio"/>	
	MPLS OAM	MPLS OAM	MPLS OAM	X	X	<input type="radio"/>	
	MPLS Stastics	MPLS Stastics	MPLS Stastics	X	X	<input type="radio"/>	
	L2VPN	L2VPN	L2VPN	X	X	<input type="radio"/>	
	L3VPN	L3VPN	L3VPN	X	X	<input type="radio"/>	
	MPLS ACL	MPLS ACL	MPLS ACL	X	X	<input type="radio"/>	
	MPLS QoS	MPLS QoS	MPLS QoS	X	X	<input type="radio"/>	
	Segment-routing	Segment-routing	Segment-routing Base-on MPLS	X	X	<input type="radio"/>	

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 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

Supported MIB (continue)

- 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)

Supported RFC (The End)

- 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)
- 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

Remark:

- *1. Loss measure(LM) is not available on BigFlow and SerdesX Platform.
- *2. WDRR(Weighted Deficit Round Robin)scheduling is not available supported on SerdesX platform.
- *3. SP + WDRR mixed scheduling is not available on SerdesX platform.
- *4. ECN tags based on Tail Drop is not available on SerdesX platform.
- *5. MacSec(802.1AE) is not available on BigFlow Platform.
- *6. Elephant Flow Detection is not available on BigFlow Platform.

About HOHUNET:

HOHUNET was established in 2015 as a technology-oriented company specializing in the independent development of switch products based on domestic chips. With the continuous evolution of chip technology, HOHUNET has launched a range of differentiated products based on this chip platform. 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 power. 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.

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