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Bezpieczeństwo, Efektywność, Optymalizacja

Grupa **NETF**, Netfront, Infopower, Agropower Sukces poprzez profesjonalizm i doskonałość



# H3C S5000V5-EI Managed Switch Series

Release Date: Apr, 2023



New H3C Technologies Co., Limited



### Product Overview

H3C S5000V5-EI series is the latest development of Gigabit speed managed Ethernet switch that is especially for SMB (Small Business) market. Besides high-performance access, it also offers abundant security access policy control and enhanced network manageability and maintenance. This makes it ideal for network construction on industries such as government, small to midsize enterprise, school and hotel.

H3C S5000V5-EI series Ethernet switch includes the following models:

- S5008PV5-EI-S: 8\*10/100/1000BASE-T Ports and 2\*1000BASE-X SFP Ports
- S5016PV5-EI-S: 16\*10/100/1000BASE-T Ports and 4\*1000BASE-X SFP Ports
- S5024PV5-EI-S: 24\*10/100/1000BASE-T Ports and 2\*1000BASE-X Ports
- S5024PV5-EI: 24\*10/100/1000BASE-T Ports and 4\*1000BASE-X Ports
- S5048PV5-EI: 48\*10/100/1000BASE-T Ports and 4\*1000BASE-X Ports
- S5008PV5-EI-HPWR: 8\*10/100/1000BASE-T PoE+ Ports and 2\*1000BASE-X SFP Ports
- S5016PV5-EI-PWR-S: 16\*10/100/1000BASE-T PoE+ Ports and 2\*1000BASE-X SFP Ports
- S5024PV5-EI-PWR-S: 16\*10/100/1000BASE-T PoE+ Ports, 8\*10/100/1000BASE-T Ports and 2\*1000BASE-X Ports
- S5024PV5-EI-HPWR: 24\*10/100/1000BASE-T PoE+ Ports (AC 370W) and 4\*1000BASE-X SFP Ports
- S5048PV5-EI-PWR: 48\*10/100/1000BASE-T PoE+ Ports (AC 370W) and 4\*1000BASE-X SFP Ports



S5008PV5-EI-S









S5024PV5-EI-S



S5024PV5-EI



S5048PV5-EI





#### S5008PV5-EI-HPWR



S5016PV5-EI-PWR-S



S5024PV5-EI-PWR-S



S5024PV5-EI-HPWR





S5048PV5-EI-PWR

## Features

#### Multi-type Port Access

- Ethernet fiber port and copper port capability offers customers flexibility.
- Offers 8-port, 16-port, 24-port, 48-port access and all ports support line-rate forward.
- Easy to install and use.

#### IRF2 (Intelligent Resilient Framework 2)

H3C S5000V5 series switch supports IRF2 technology that connects multiple physical devices (up to 9) to a logical device, that is to say, users can manage and use these devices as a single device. IRF can bring the following benefits to the user:

- **Simplify the management:** Any one of the ports can be connected to any of the devices to login to a unified logical device, and to manage the whole system and all the members of the system through the configuration of a single device, without the physical connection to each member of the device.
- **High scalability:** With IRF2, plug-n-play device aggregation can be achieved by adding one or more switches into the IRF2 stack and enabling IRF2 stacking on the new device. New devices can be managed with a single IP, and upgraded at the same time to reduce network expansion cost.
- **High reliability:** IRF2 patented 1: N standby technology allows each slave device in the IRF2 stack to serve as the backup of the master, creating control and data link redundancy, as well as uninterrupted layer-3 forwarding. This improves the reliability, avoids unplanned business downtime and serves to



improve overall performance. When the master device fails, traffic remains uninterrupted.

- Load balancing: IRF2 supports cross-device link aggregation, upstream and downstream can be connected to more than one physical link, which creates another layer of network redundancy and boosts the network resource utilization.
- **Availability:** H3C Implements IRF2 through standard Gigabit Ethernet (1GE) ports or 10 Gigabit Ethernet (10GE) ports which allocates bandwidth for business and application access and reasonably splits local traffic and upstream traffic.

#### **Comprehensive Security Control Policies**

- Support ARP Detection, which can prevent hack or ARP attack.
- Support IP Source Guard, which can prevent illegal IP/MAC address spoof and DOS attack.
- Support DHCP Snooping, which can prevent illegal DHCP server.
- Support port security features, which can prevent MAC address based attack and MAC address permit/limit flow.
- Support 802.1X and MAC authentication, client software version detection, Guest VLAN, agent detection and dual NIC detection with iMC.

#### **Enhanced Service Capabilities**

- Support speed limit on port and flow and multiple granular management tools.
- Supports flexible queue scheduling algorithms, including SP(Strict Priority), WRR(Weighted Round Robin) and SP+WRR.
- Support rich IPV6 services and multiple IPV6 manage tools.

#### **Professional Surge Protection Function**

The S5000V5-EI series switches use professional built-in surge protection technology and support the industry-leading 6KV service port surge protection capability, which greatly reduces the damage rate of surge strikes to equipment even in harsh working environments.

#### **Green Features**

Energy saving design greatly reduces device power consumption and trouble spots. Radiation is reducing to reach standard for household electrical appliances and is harmless to human.



The S5000V5-EI series switches are also compliant with material environmental protection and the EU RoHS safety standard.

## Specifications

Features	S5008PV5-EI-S	S5016PV5-EI-S	S5024PV5-EI-S	S5024PV5-EI	S5048PV5-EI		
Switching capacity	20Gbps	40Gbps	52Gbps	56Gbps	104Gbps		
Packet forwarding rate	15Mpps	30Mpps	39Mpps	42Mpps	78Mpps		
Management port	1 console port						
Latency (64byte/µs)	GE: < 5µs 10GE < 3µs						
10/100/1000 Base-T port	8	16	24	24	48		
SFP port	2	4	2	4	4		
Copper port	Half-duplex, full-du	plex, auto-negotiatio	on				
features	MDI/MDI-X						
	LLDP						
	Static MAC configu	ration					
	MAC address learni	ng limit					
	Port mirror and flow	w mirror					
Ethernet functions	Link aggregation (u	p to 8 ports per grou	ub)				
	Port isolation						
	STP/RSTP/MSTP						
	IEEE 802.3ad (Dyna	amic link aggregatior	n), static port aggre	gation			
	EEE 802.3az						
	802.1Q ( up to 4K VLAN)						
Protocol-based VLAN							
VLAN	Voice VLAN						
	IP subnet based VL	AN					
	MAC based VLAN						



GUEST VLANIP routingStatic routingIP routingStatic routingIP CP RelayIP CP RelayIP CP ClientIP CP ClientIP CP Snooping Option82IP CP Snooping Option82BroadcastIGMP V1/V2/V3 SnoopingQoSVRR/HQ-VNR802.1p. DSCP priority mappingIp cerctional port speed limitACLNaley 2, layer 3 and layer 4ACL on layer 2, layer 3 and layer 4ACL on layer 2, layer 3 and layer 4ACL on Layer 2, layer 3 and layer 4ACL ON IPV4, IPv6VAN ACLVAN ACLProfectional port speed limitIPV6No PMTUIPV6 Client, DHCPv6 SnoopingNDFV6 Client, DHCPv6 SnoopingNDFV6 Client, DHCPv6 SNoopingNDFV6 Client, DHCPv6 SNoopingStructSSRV2<	Features	S5008PV5-EI-S	S5016PV5-EI-S	S5024PV5-EI-S	S5024PV5-EI	S5048PV5-EI			
DHCP         DHCP Client           DHCP Client         DHCP Snooping           DHCP Snooping Option82         DHCP Snooping Option82           Broadcast         IGMP V1/V2/V3 Snooping           QoS         WRR/HQ:WRR           802.1p, DSCP priority mapping         Directional port speed limit           ACL         ACL on layer 2, layer 3 and layer 4           ACL         ACL on IPV4, IPv6           VLAN ACL         IPv6 Static routing, dual-stack           DHCPV6 Client, IPV6 SShV2, IPv6 domain name resolution           Reliability         Hot patch, in-service patch upgrade           Hierarchical user management and password protection           SSL         Specific IP address based FTP logging and password mechanism           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet           Prevent Dos attack         IP+ MAC+PORT+VLAN binding           IEEE 802.1x         SAU		GUEST VLAN	GUEST VLAN						
DHCP         DHCP Client           DHCP Snooping         DHCP Snooping Option82           Broadcast         IGMP V1/V2/V3 Snooping           QoS         WR/HQ-WRR           802.1p. DSCP priority mapping         Directional port speed limit           ACL         ACL on layer 2, layer 3 and layer 4           ACL         ACL on IPV4, IPV6           VLNN ACL         VLNN ACL           IPv6 Static routing, dual-stack         DHCPV6 Client, DHCPv6 Snooping           IPv6 Fling, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         SSI N2           Reliability         Hot patch, in-service patch upgrade           SSL         SSL           Specific IP address based FTP logging and password mechanism           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL 1 packet and protocol packet           Prevent Dos attack         IP+ MAC+PORT+VLAN binding           IEEE 802.1x         SVI source address validity authentication	IP routing	Static routing							
DHCP         DHCP Snooping           DHCP Snooping Option82           Broadcast         IGMP V1/V2/V3 Snooping           Pagest         Diff-Serv QoS           WRR/HQ-WRR         802.1p. DSCP priority mapping           Directional port speed limit         1000000000000000000000000000000000000		DHCP Relay							
DHCP Snooping           DHCP Snooping Option82           Broadcast         IGMP V1/V2/V3 Snooping           QoS4         Diff-Serv QoS           WRR/HQ-WRR         802.1p, DSCP priority mapping           Directional port speed limit         802.1p, DSCP priority mapping           ACL on layer 2, layer 3 and layer 4         ACL on layer 2, layer 3 and layer 4           ACL         PN6 Static routing, dual-stack           DHCPV6 Client, DHCPv6 Snooping         DHCPv6 Client, DHCPv6 Snooping           ND, PMTU         IPv6 Static routing, dual-stack           PV6 Fing, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         Static routing, dual-stack           Reliability         Hierarchical user management and password protection           SSL         SSL           Specific IP address based FTP logging and password mechanism           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, trTL=1 packet and protocol packet           IP+MAC+PORT+VLAN binding           IEEE 802.1x           SLUI source address validity authentication	DUCD	DHCP Client							
Broadcast       IGMP V1/V2/V3 Snooping         Broadcast       IGMP V1/V2/V3 Snooping         Post       Diff-Serv QoS         WRR/HQ-WRR       802.1p, DSCP priority mapping         Directional port speed limit       1000000000000000000000000000000000000	DHCP	DHCP Snooping							
QoS       Diff-Serv QoS         WRR/HQ-WRR       802.1p, DSCP priority mapping         Directional port speed limit       ACL         ACL       ACL on layer 2, layer 3 and layer 4         ACL       ACL on IPv4, IPv6         VLAN ACL       IPv6 static routing, dual-stack         DHCPv6 Client, DHCPv6 Snooping         ND, PMTU         IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         Reliability         Hor patch, in-service patch upgrade         Hierarchical user management and password protection         SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP+ MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication		DHCP Snooping Op	tion82						
QoS         WRR/HQ-WRR           802.1p, DSCP priority mapping         Directional port speed limit           ACL         Directional port speed limit           ACL         ACL on layer 2, layer 3 and layer 4           ACL         ACL on IPv4, IPv6           VLAN ACL         IPv6 static routing, dual-stack           IPv6         DHCPv6 Client, DHCPv6 Snooping           IPv6         ND, PMTU           IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution           Reliability         Hot patch, in-service patch upgrade           Hierarchical user management and password protection           SSL           Specific IP address based FTP logging and password mechanism           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet           Prevent Dos attack           IP+ MAC+PORT+VLAN binding           IEEE 802.1x           SAVI source address validity authentication	Broadcast	IGMP V1/V2/V3 Sno	ooping						
QoS         802.1p, DSCP priority mapping           Directional port speed limit           ACL         ACL on layer 2, layer 3 and layer 4           ACL         ACL on IPv4, IPv6           VLAN ACL         IPv6 static routing, dual-stack           DHCPv6 Client, DHCPv6 Snooping         ND, PMTU           IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution           Reliability         Hot patch, in-service patch upgrade           Hierarchical user management and password protection           SSL           Specific IP address based FTP logging and password mechanism           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet           Prevent Dos attack           IP+ MAC+PORT+VLAN binding           IEEE 802.1x           SAVI source address validity authentication		Diff-Serv QoS							
802.1p, DSCP priority mapping           Directional port speed limit           ACL           ACL on layer 2, layer 3 and layer 4           ACL on IPv4, IPv6           VLAN ACL           IPv6           DHCPv6 Client, DHCPv6 Snooping           IPv6           ND, PMTU           IPv6 Feing, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution           Reliability           Hot patch, in-service patch upgrade           Security           Security           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet           Prevent Dos attack           IP+ MAC+PORT+VLAN binding           IEEE 802.1x           SAVI source address validity authentication	0.5	WRR/HQ-WRR							
ACL       ACL on layer 2, layer 3 and layer 4         ACL       ACL on IPv4, IPv6         VLAN ACL       IPv6 static routing, dual-stack         IPv6       DHCPv6 Client, DHCPv6 Snooping         ND, PMTU       IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         Reliability       Hot patch, in-service patch upgrade         Hierarchical user management and password protection         SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication	Qos	802.1p, DSCP priori	ty mapping						
ACL       ACL on IPv4, IPv6         VLAN ACL       IPv6 static routing, dual-stack         IPv6       DHCPv6 Client, DHCPv6 Snooping         ND, PMTU       IPv6 Pring, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         Reliability       Hot patch, in-service patch upgrade         Hierarchical user management and password protection         SSHv2         SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication		Directional port spe	ed limit						
VLAN ACL           IPv6         IPv6 static routing, dual-stack           DHCPv6 Client, DHCPv6 Snooping         DHCPv6 Client, DHCPv6 Snooping           IPv6         IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution           Reliability         Hot patch, in-service patch upgrade           Keliability         Hierarchical user management and password protection           SSL         SSL           Security         Specific IP address based FTP logging and password mechanism           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet           IP+MAC+PORT+VLAN binding           IEEE 802.1x           SAVI source address validity authentication		ACL on layer 2, laye	r 3 and layer 4						
IPv6         IPv6 static routing, dual-stack           DHCPv6 Client, DHCPv6 Snooping         DHCPv6 Client, DHCPv6 Snooping           ND, PMTU         IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution           Reliability         Hot patch, in-service patch upgrade           Hierarchical user management and password protection         SSHv2           SSL         Specific IP address based FTP logging and password mechanism           Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet           Prevent Dos attack         IP + MAC+PORT+VLAN binding           IEEE 802.1x         SAVI source address validity authentication	ACL	ACL on IPv4, IPv6							
IPv6       DHCPv6 Client, DHCPv6 Snooping         ND, PMTU       IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         Reliability       Hot patch, in-service patch upgrade         Hierarchical user management and password protection       SSHv2         SSL       SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP+ MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication		VLAN ACL							
IPv6       ND, PMTU         IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         Reliability       Hot patch, in-service patch upgrade         Hierarchical user management and password protection         SSHv2         SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication		IPv6 static routing,	dual-stack						
ND, PMTU         IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, IPv6 domain name resolution         Reliability       Hot patch, in-service patch upgrade         Hierarchical user management and password protection         SSHv2         SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP+MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication		DHCPv6 Client, DHC	CPv6 Snooping						
Reliability       Hot patch, in-service patch upgrade         Hierarchical user management and password protection         SSHv2         SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication	IPV6	ND, PMTU							
Security       Hierarchical user management and password protection         SSHv2       SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication		IPv6 Ping, IPv6 Teln	et, IPv6 SSHv2, IPv6	domain name resolu	tion				
SSHv2         SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication	Reliability	Hot patch, in-servic	e patch upgrade						
SSL         Specific IP address based FTP logging and password mechanism         Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC + PORT + VLAN binding         IEEE 802.1x         SAVI source address validity authentication		Hierarchical user ma	anagement and pass	word protection					
Security Sec		SSHv2							
Security     Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet and protocol packet       Prevent Dos attack     IP + MAC+PORT+VLAN binding       IEEE 802.1x     SAVI source address validity authentication		SSL							
Security       TTL=1 packet and protocol packet         Prevent Dos attack         IP + MAC+PORT+VLAN binding         IEEE 802.1x         SAVI source address validity authentication		Specific IP address I	based FTP logging a	nd password mechar	nism				
IP + MAC+PORT+VLAN binding IEEE 802.1x SAVI source address validity authentication	Security			ticast packet, broadca	ast packet, unkno	wn unicast packet,			
IEEE 802.1x SAVI source address validity authentication		Prevent Dos attack							
SAVI source address validity authentication									
·		IEEE 802.1x							
Padius HW/TACACS		SAVI source addres	s validity authenticat	tion					
Radius, HVETACACS		Radius, HWTACACS							



Features	S5008PV5-EI-S	S5016PV5-EI-S	S5024PV5-EI-S	S5024PV5-EI	S5048PV5-EI		
	SNMPv3	SNMPv3					
	Broadcast suppress	ion					
	Prevent CPU attack						
	Console/AUX Mode	em/Telnet/SSH2.0/CL	l				
	Loading and upgrad	ding through FTP/TF	TP/Xmodem/SFTP				
	SNMP V1/V2c/V3						
	NTP						
System Management	HTTP/HTTPS						
J	System log						
	Cluster managemen	nt					
	RFC 1213 MIB-2 Sta	ands for Managemen	nt Information Base				
Environment	Operating tempera	ture: -5°C~45°C					
temperature	Storage temperatu	re: -40°C~70°C					
Environment	Operating humidity	v: 5%~95% , non-co	ndensing				
humidity	Storage humidity:	5%~95% , non-cond	ensing				
Environment protection	China RoHs, EEE						
Power	MIN: 6W	MIN: 7W	MIN: 11W	MIN: 9W	MIN: 18W		
consumption	MAX: 11W	MAX: 16W	MAX: 20W	MAX: 23W	MAX: 41W		
Fan NUM	Fanless	Fanless	Fanless	Fanless	1		
PoE+	-	-	-	-	-		
MTBF(Year)	140.82	136.24	150.86	150.86	115.68		
MTTR(Hour)	1	1	1	1	1		
Weight	≤1.5kg	≤2kg	≤2.5kg	≤2.5kg	≤3.5kg		
Input voltage range	AC: 100V ~ 240V AC, 50/60Hz;						
Dimensions (W × D x H)	266x160x43.6mm	330x230x43.6mm	294x179x43.6mm	440×160×43.6 mm	440×230×43.6 mm		

Note: This content is applicable only to regions outside mainland China. H3C reserves the right to interpret the content.

## **Specifications (Continued)**



Features	S5008PV5-EI- HPWR	S5016PV5-EI- PWR-S	S5024PV5-EI- PWR-S	S5024PV5-EI- HPWR	S5048PV5-EI- PWR	
Switching capacity	20Gbps	36Gbps	52Gbps	56Gbps	104Gbps	
Packet forwarding rate	15Mpps	27Mpps	39Mpps	42Mpps	78Mpps	
Manageme nt port	1 console port					
10/100/100 0 Base-T port	8	16	24	24	48	
SFP port	2	2	2	4	4	
Copper port	Half-duplex, full-du	plex, auto-negotiatic	n			
features	MDI/MDI-X					
	LLDP					
	Static MAC configu	ration				
	MAC address learni	ng limit (up to 8K)				
Ethernet	Port mirror and flow	v mirror				
functions	Link aggregation (u	p to 8 ports per grou	ıp)			
	Port isolation					
	STP/RSTP/MSTP					
	IEEE 802.3ad (Dyna	mic link aggregation	a), static port aggreg	gation		
	802.1Q (up to 4K VI	LAN)				
	Protocol-based VLA	N				
VLAN	IP subnet based VL	AN				
	MAC based VLAN					
	GUEST VLAN					
IP routing	Static routing					
	DHCP Relay					
DHCP	DHCP Client					
	DHCP Snooping					
	DHCP Snooping Op	otion82				



Features	S5008PV5-EI- HPWR	S5016PV5-EI- PWR-S	S5024PV5-EI- PWR-S	S5024PV5-EI- HPWR	S5048PV5-EI- PWR		
Broadcast	IGMP V1/V2/V3 Sno	ooping					
	Diff-Serv QoS						
QoS	WRR/HQ-WRR						
QUS	802.1p, DSCP priorit	ty mapping					
	Directional port spe	ed limit					
	ACL on layer 2, laye	r 3 and layer 4					
ACL	ACL on IPv4, IPv6						
	VLAN ACL						
	IPv6 static routing, o	dual-stack					
IPv6	DHCPv6 Client, DHC	Pv6 Snooping					
IF VO	ND, PMTU						
	IPv6 Ping, IPv6 Teln	et, IPv6 SSHv2, IPv6	domain name resolut	ion			
Reliability	Hot patch, in-service	e patch upgrade					
	Hierarchical user ma	anagement and pass	word protection				
	SSHv2						
	SSL						
	Specific IP address b	based FTP logging ar	nd password mechan	ism			
		Prevent attack from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TL=1 packet and protocol packet					
	Prevent Dos attack						
Security	IP + MAC+PORT+VL	AN binding					
	IEEE 802.1x						
	SAVI source address	s validity authenticat	ion				
	Radius, HWTACACS						
	SNMPv3						
	Broadcast suppression						
	Prevent CPU attack						
System	Console/AUX Mode	m/Telnet/SSH2.0/CL					
manageme	Loading and upgrading through FTP/TFTP/Xmodem/SFTP						
nt	SNMP V1/V2c/V3						



Features	S5008PV5-EI- HPWR	S5016PV5-EI- PWR-S	S5024PV5-EI- PWR-S	S5024PV5-EI- HPWR	S5048PV5-EI- PWR
	NTP				
	System log				
	Cluster managemer	nt			
Environmet	Operating temperat	ture: -5°C~45°C			
temperatur e	Storage temperatur	re: -40℃~70℃			
Environmen	Operating humidity	: 5%~95%, non-con	densing		
t humidity	Storage humidity:	5%~95%, non-conde	ensing		
Environmen t protection	RoHs, EEE				
Power consumptio n	MIN: 14W MAX: 156W	MIN: 10W MAX: 152W	MIN: 13W MAX: 158W	MIN: 19W MAX: 448W	MIN: 36W MAX: 467W
Fan NUM	Fanless	Fanless	Fanless	1	1
PoE+	125W	125W	125W	370w	370W
MTBF(Year)	117.08	86.01	87.06	52.81	50.19
MTTR(Hour)	1	1	1	1	1
Weight	≤3kg	≤2.5kg	≤2.5kg	≤6kg	≤6kg
Input voltage range	AC: 100V ~ 240V AC, 50/60Hz;				
Dimensions (W × D x H)	330×230 × 43.6mm	330x230x43.6mm	330x230x43.6mm	440×260× 43.6mm	440×400× 43.6mm

## **Performance Specification**

Entries	S5008PV5-EI-S	S5016PV5-EI-S	S5024PV5-EI-S	S5024PV5-EI	S5048PV5-EI
MAC address entries	8192	8192	8192	8192	8192
VLAN table	4094	4094	4094	4094	4094
VLAN interface	32	32	32	32	32
IPv4 routing	512	512	512	512	512

BC

Entries	S5008PV5-EI-S	S5016PV5-EI-S	S5024PV5-EI-S	S5024PV5-EI	S5048PV5-EI
entries					
IPv4 ARP entries	128	128	128	128	128
IPv4 ACL entries	256	256	256	256	256
IPv4 multicast L2 entries	1000	1000	1000	1000	1000
IPv6 unicast routing entries	16	16	16	16	16
QOS forward queues	8	8	8	8	8
IPv6 ACL entries	256	256	256	256	256
IPv6 ND entries	64	64	64	64	64
Jumbo frame length	10000	10000	10000	10000	10000
Max Stacking Members	4	4	4	9	9
Max Stacking Bandwidth	8G	8G	8G	16G	16G
MAX num in one link group	4	8	8	8	8
Link group num	124	124	124	124	124

## Performance Specification (Continued)

Entries	S5008PV5-EI- HPWR	S5016PV5-EI- PWR-S	S5024PV5-EI- PWR-S	S5024PV5-EI- HPWR	S5048PV5-EI- PWR
MAC address entries	8192	8192	8192	8192	8192
VLAN table	4094	4094	4094	4094	4094
VLAN interface	32	32	32	32	32
IPv4 routing entries	512	512	512	512	512
IPv4 ARP entries	128	128	128	128	128
IPv4 ACL entries	256	256	256	256	256
IPv4 multicast L2 entries	1000	1000	1000	1000	1000
IPv6 unicast routing entries	16	16	16	16	16



Entries	S5008PV5-EI- HPWR	S5016PV5-EI- PWR-S	S5024PV5-EI- PWR-S	S5024PV5-EI- HPWR	S5048PV5-EI- PWR
QOS forward queues	8	8	8	8	8
IPv6 ACL entries	256	256	256	256	256
IPv6 ND entries	64	64	64	64	64
Jumbo frame length	10000	10000	10000	10000	10000
Max Stacking Bandwidth	16G	8G	8G	16G	16G
Max Stacking Members	9	4	4	9	9

## **PoE Power Capacity**

Product Name	Total PoE power capacity	PoE Ports Quantity
	12534	15.4W (802.3af): 8
S5008PV5-EI-HPWR	125W	30W (802.3at): 4
	10514	15.4W (802.3af): 8
S5016PV5-EI-PWR-S	125W	30W (802.3at): 4
	10534	15.4W (802.3af): 8
S5024PV5-EI-PWR-S	125W	30W (802.3at): 4
	27014	15.4W (802.3af): 24
S5024PV5-EI-HPWR	370W	30W (802.3at): 12
	27014/	15.4W (802.3af): 24
S5048PV5-EI-PWR	370W	30W (802.3at): 12

## **Ordering Information**

Product ID	Product Description
LS-5008PV5-EI-S-GL	H3C S5008PV5-EI-S L2 Ethernet Switch with 8*10/100/1000BASE-T Ports and 2*1000BASE- X SFP Ports,(AC)
LS-5016PV5-EI-S-GL	H3C S5016PV5-EI-S L2 Ethernet Switch with 16*10/100/1000BASE-T Ports and 4*1000BASE-X SFP Ports,(AC)
LS-5024PV5-EI-S-GL	H3C S5024PV5-EI-S L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 2*1000BASE-X Ports,(AC)
LS-5024PV5-EI-GL	H3C S5024PV5-EI L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 4*1000BASE-X Ports,(AC)
LS-5048PV5-EI-GL	H3C S5048PV5-EI L2 Ethernet Switch with 48*10/100/1000BASE-T Ports and 4*1000BASE-X Ports,(AC)



Product ID	Product Description
LS-5008PV5-EI- HPWR-GL	H3C S5008PV5-EI-HPWR L2 Ethernet Switch with 8*10/100/1000BASE-T PoE+ Ports (AC 125W) and 2*1000BASE-X SFP Ports,(AC)
LS-5016PV5-EI-PWR- S-GL	H3C S5016PV5-EI-PWR-S L2 Ethernet Switch with 16*10/100/1000BASE-T PoE+ Ports (AC 125W) and 2*1000BASE-X SFP Ports,(AC)
LS-5024PV5-EI-PWR- S-GL	H3C S5024PV5-EI-PWR-S L2 Ethernet Switch with 16*10/100/1000BASE-T PoE+ Ports, 8*10/100/1000BASE-T Ports and 2*1000BASE-X Ports,(AC)
LS-5024PV5-EI- HPWR-GL	H3C S5024PV5-EI-HPWR L2 Ethernet Switch with 24*10/100/1000BASE-T PoE+ Ports (AC 370W) and 4*1000BASE-X SFP Ports,(AC)
LS-5048PV5-EI-PWR- GL	H3C S5048PV5-EI-PWR L2 Ethernet Switch with 48*10/100/1000BASE-T PoE+ Ports (AC 370W) and 4*1000BASE-X SFP Ports,(AC)
SFP-GE-LH80- SM1550	1000BASE-LH80 SFP Transceiver, Single Mode (1550nm, 80km, LC)
SFP-STACK-Kit	SFP Stacking Cable (150cm, including two 1000BASE-T SFP module and one stacking cable)
SFP-GE-LX-SM1310-A	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)
SFP-GE-LH40- SM1310	1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)
SFP-GE-LH40- SM1550	1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC)
SFP-GE-SX-MM850-A	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)
SFP-GE-LX-SM1310- BIDI	1000BASE-LX BIDI SFP Transceiver, Single Mode (TX1310/RX1490, 10km, LC)
SFP-GE-LX-SM1490- BIDI	1000BASE-LX BIDI SFP Transceiver, Single Mode (TX1490/RX1310, 10km, LC)
SFP-GE-T	SFP GE Copper Interface Transceiver Module (100m,RJ45)



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