

## H3C S5000V3-EI Managed Switch Series

### Product Overview

H3C S5000V3-EI 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.



S5016PV3-EI



S5024PV3-EI



S5048PV3-EI



S5024PV3-EI-PWR



S5024PV3-EI-HPWR



S5048PV3-EI-PWR



S5024FV3-EI

## Features and Benefits

### Multi-type port access

- Ethernet fiber port and copper port capability offers customers flexibility
- Offers 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 S5000V3 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 anti-lightning function

- The S5000V3-EI switch series uses professional lightning protection technology from H3C and supports industry leading switch port 6KV anti-lightning capability, which can greatly reduce the rate of lightning damage to the equipment.

## Green features

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

- The S5000V3-EI switch series is also compliant with material environmental protection and the EU RoHS safety standard

## Specifications

Features	S5016PV3-EI	S5024PV3-EI	S5048PV3-EI	S5024PV3-EI -PWR	S5024PV3-EI- HPWR	S5048PV3-EI -PWR	S5024FV3-EI
Switching capacity	40Gbps	56Gbps	104Gbps	56Gbps		104Gbps	56Gbps
Packet forwarding rate	30Mpps	42Mpps	78Mpps	42Mpps		78Mpps	78Mpps
Management port	1 console port						
10/100/1000 Base-T port	16	24	48	24		48	2
SFP port	4	4	4	4		4	28
Copper port features	Half-duplex, full-duplex, auto-negotiation MDI/MDI-X						
Ethernet functions	LLDP Static MAC configuration MAC address learning limit (up to 16K) Port mirror and flow mirror Link aggregation (up to 8 ports per group) Port isolation STP/RSTP/MSTP IEEE 802.3ad (Dynamic link aggregation) , static port aggregation						
VLAN	802.1Q ( up to 4K VLAN) Protocol-based VLAN IP subnet based VLAN MAC based VLAN GUEST VLAN						
IP routing	Static routing, RIP						
DHCP	DHCP Relay						

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	DHCP Client DHCP Snooping DHCP Snooping Option82						
Broadcast	IGMP V1/V2/V3 Snooping						
QoS	Diff-Serv QoS WRR/HQ-WRR 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	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						
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 Radius, HWTACACS SNMPv3 Broadcast suppression Prevent CPU attack						
System management	Console/AUX Modem/Telnet/SSH2.0/CLI Loading and upgrading through FTP/TFTP/Xmodem/SFTP SNMP V1/V2c/V3						

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	NTP System log Cluster management						
Environment temperature	Operating temperature: 0°C~40°C Storage temperature: -40°C~70°C						
Environment humidity	Operating humidity: 5%~95% , non-condensing Storage humidity: 5%~95% , non-condensing						
Environment protection	China RoHs, EEE						
Power consumption	≤19W	≤23W	≤41W	≤230W	AC≤446W DC≤790W	AC≤467W DC≤807W	≤37W
PoE+	-	-	-	185W	AC 370W DC 740W	AC 370W DC 740W	-
Weight	≤2kg	<2.5kg	<3.5kg	≤4.5kg	≤6kg	≤6kg	<3kg
Input voltage range	AC: 100V~240V AC, 50/60Hz; DC: 220V						
Dimensions (W x D x H)	330x230x43.6 mm	440x160x43.6 mm	440x230x43.6 mm	440x260x43.6 mm		440x400x43.6 mm	440x260x43.6 mm

## Ordering information

Product ID	Product Description
LS-5016PV3-EI-GL	H3C S5016PV3-EI L2 Ethernet Switch with 16*10/100/1000BASE-T Ports and 4*1000BASE-X SFP Ports,(AC)
LS-5024PV3-EI-GL	H3C S5024PV3-EI L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 4*1000BASE-X Ports,(AC)
LS-5048PV3-EI-GL	H3C S5048PV3-EI L2 Ethernet Switch with 48*10/100/1000BASE-T Ports and 4*1000BASE-X Ports,(AC)
LS-5024PV3-EI-PWR-GL	H3C S5024PV3-EI-PWR L2 Ethernet Switch with 24*10/100/1000BASE-T PoE+ Ports(AC 185W) and 4*1000BASE-X Ports,(AC)
LS-5048PV3-EI-PWR-GL	H3C S5048PV3-EI-PWR L2 Ethernet Switch with 48*10/100/1000BASE-T PoE+ Ports(AC 370W,DC 740W) and 4*1000BASE-X SFP Ports,(AC/DC)