

HAN Networks S11003L Series

Clustered Core Chassis Switch

Product Description

HAN S11003L Chassis Switch is a clustered multicore switch designed for the next-generation converged networks. S11003L series switch matches the application requirements of SMB scenarios, and can be deployed in medium and large video surveillance networks, smart device networks, campus networks and other scenarios according to business needs.





Product Characteristics

Advanced Hardware Architecture Design & Rich Port Combination

HAN S11003L core switch integrates the management module with the business module. Any business
module can serve as a management module simply by inserting it into slot 1, eliminating the need for a
separate management module. It also offers modular design, high-density port expansion service, and rich
port combinations of six types of line cards.



Rich Service Features

- S11003L series caters to the application requirements of SMB scenarios, and can be deployed in medium and large video surveillance networks, smart device networks, campus networks and other scenarios according to business needs.
- Perfect two-layer and three-layer multicast routing protocol of S11003L Series can meet various types of network interconnection requirements, and can set up super-large campus networks, enterprise networks and industrial private networks, which meet the requirements of high-density, multi-terminal HD video surveillance and HD video conferencing.

Comprehensive Security Mechanisms

- All ports have lightning protection capabilities up to 6KV, reducing the port damage caused by surges.
- Device-level Security Protection: S11003L Series adopts advanced hardware architecture design, realizing hierarchical scheduling and protection of messages, supports for defending against attacks on devices such as DoS, TCP SYN Flood, UDP Flood, broadcast storms, high traffic, etc., supports 6KV lightning protection, and supports command line hierarchical protection based on user levels.
- Comprehensive Security Certification: S11003L Series complies with IEEE 802.1x, Radius, BDTacacs+.
- Enhanced Service Security Mechanism: S11003L Series supports the plain text or MD5 authentications of relevant routing protocol; supports uRPF reverse route lookup technology, which can effectively control illegal business; supports DPI (Deep Packet Inspection) and DPF (Deep Packet Filtration), thus effectively isolating illegal data packets and improving the security of the network system.

Innovative Green Environmental Design

- Smart Power Management System: S11003L Series adopts advanced power system architecture design, achieving efficient efficient power conversion, private power monitoring, soft start, and sequential power-up functions, real-time monitoring of the overall operation status, intelligent adjustment and deep energysaving.
- Smart Fan Management System: S11003L Series is designed with the intelligent fan design, supporting
 automatic speed adjustment and independent zone control, effectively reducing noise, and prolong the
 service life of the fan.
- S11003L Series supports Efficient Ethernet and complies with International standard IEEE 802.3az, effectively reducing energy consumption.



Product Specifications

Item	S11003L
Switching capacity	15.36Tbps
Forwarding	2880Mpps
Number of slots	3
Line card slots	3
MAC switching	Static configuration and dynamically learning of MAC address
G G G G G G G G G G G G G G G G G G G	MAC browsing and removal
	Configuring of MAC aging time
	Limited number of learnable MAC addresses
	MAC filtering
	Black-hole MAC entry
	IEEE 802.1AE MacSec
VLAN	4K VLAN
	GVRP
	1:1 and N:1 VLAN Mapping
	Basic QinQ and Flexible QinQ
	Private VLAN
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)
	BPDU protection, root protection and loop protection
Multicast	IGMP v1/v2/v3
	IGMP Snooping
	IGMP Fast Leave
	Multicast group policy and quantity limitation
	MVR
	PIM-SM and PIM-DM
IPv4	Static routing, RIP v1/v2, OSPF
	Policy-based routing(PBR)
	Load balance through equal-cost routing
	BFD for OSPF
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet
	IPv6 Neighbor Discovery
	Path MTU Discovery
	MLD and MLD Snooping
	IPv6 static routing, RIPng, OSPFv3
	Manual tunnel, ISATAP tunnel and 6-to-4 tunnel
QoS	Flow classification based on L2~4 protocols
	CAR
	802.1P/DSCP priority re-labeling
	SP, WRR and SP+WRR
	Congestion avoidance mechanisms like Tail-Drop, WRED



Item	\$11003L
	Flow monitoring and flow shaping
	Ingress and Egress ACL, support matching L2, L3, L4 and IP quintuple to copy,
	forward and discard
	Hash-based load balancing algorithm to ensure session integrity
Security features	L2~4 ACL flow identification and filtration
	DDoS attack prevention, TCP's SYN Flood attack prevention Suppression of
	broadcast, multicast and unknown unicast packet
	Port isolation
	Port security, IP+MAC+port binding
	DHCP Snooping, DHCP Option 82
	IEEE 802.1x authentication
	Radius and BDTacacs+ authentication
	uRPF
	Level-based command line protection
Reliability	Power supply 1+1 backup
	Static/LACP LAG, M-LAG
	EAPS
	VRRP
	ISSU
Management and maintenance	Console, Telnet and SSH
	SNMP v1/v2/v3
	TFTP
	RMON
	Statistics analysis of sFLOW, Netflow
Energy saving	IEEE 802.3az EEE (Energy Efficient Ethernet)
Environment	Operating:
	Temperature/Humidity: 0° C-40 $^{\circ}$ C; 10%-90% non-condensing
	Storage:
	Temperature/Humidity: -20°C - 70°C ; 5%-95% non-condensing
Power Supply	AC: 100V-240V, 50Hz±10%
	DC: 48V
Power supply slots	2
Dimensions mm (W*D*H)	436×280×166mm
	4U
Weight (empty chassis)	10kg

Commercial references

Item	Description	
S11003L Chassis		
	Integrated Chassis of S11003L switch (1 fan tray, 2 power slots	
S11003L	excluding power supply, 3 line card slots, any line card inserted	
	into slot1 can act as the main control module)	
S11003L Power Supplies		
S110L-PA350	Hot-swap AC power module 350W	
S110L-PD350	Hot-swap DC power module 350W	
Line Card of S11003L Series		
S110L-24S2X	24-port GE SFP + 2-port 10GE SFP+ Line Card	
S110L-24G2X	24-port GE RJ45 + 2-port 10GE SFP+ Line Card	
S110L-48S2X	48-port GE SFP + 2-port 10GE SFP+ Line Card	
S110L-48G2X	48-port GE RJ45 + 2-port 10GE SFP+ Line Card	
S110L-24G24S2X	24-port GE RJ45 + 24-port GE SFP + 2-port 10GE SFP+ Line Card	
S110L-8X	8-port 10GE SFP+ Line Card	

HAN Networks Co., Ltd.

1/F, 19A# Building, East District Yongyou Software park, Haidian District, Beijing, PR China

Phone: (+86) 400 618 9906

Email: service@han-networks.com

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