



XS26DH series

10 GE Security Routing Switch



Product Overview

XS26DH Series are 10GE security routing Ethernet switch with high-performance, high-security and multi-service. Advanced non-blocking array exchange and huge packet cache support smooth operation at the extreme circumstance. It is for IP MAN convergence layer and large-scale enterprise zone or the core of the network layer.

Features

- Backplane capacity 128 Gbps
- Throughput 95.2 Mpps
- 12*10/100/1000Base-X
- 12*GE Combo
- 2*10GE slot
- 1+1 redundant power
- Support stack
- Full-loaded power ≤ 50 W
- 440 mm*380 mm*44 mm

Product Specification

Attributes	
Backplane capacity	128 Gbps
Switching capacity	128 Gbps
Throughput (IPv4/IPv6)	95.2 Mpps
Memory and storage	256 MB DDR2 SDRAM Memory and 8 MB Flash Memory
Redundancy design	1+1 hot-swap redundant power
Power supply	AC: Input 90~260 V, 50~60 Hz ; DC: Input -36 V~-72 V ;
Power consumption	- Full-load ≤ 50 W , Idle ≤ 30 W
Outline dimensions (W*D*H)	440 mm × 380 mm × 44 mm
Weight (in maximum configuration)	≤ 6 kg
Environmental requirements	Working temperature : -15°C~55°C Storage temperature : -40°C~70°C Relative humidity : 10%~90%, no condensing

Business Features:

Attributes		
L2 features	MAC	16K MAC address MAC Black Hole Port MAC Limit
	VLAN	4K VLAN entries Port-based/MAC-based/IP subnet-based VLAN Port-based QinQ and Selective QinQ (StackVLAN) VLAN Swap and VLAN Remark PVLAN to realize port isolation and saving public-vlan resources GVRP
	Spanning tree protocol	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP) Remote loop detecting
	Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring and traffic mirroring
Security features	User's security	Anti-ARP-spoofing Anti-ARP-flooding IP Source Guard create IP+VLAN+MAC+Port binding Port Isolation MAC address binds to port and port MAC address filtration IEEE 802.1x and AAA/Radius authentication
	Device security	Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack SSHv2 Secure Shell SNMP v3 encrypted management Security IP login through Telnet Hierarchical management and password protection of users
	Network security	User-based MAC and ARP traffic examination Restrict ARP traffic of each user and force-out user with abnormal ARP traffic Dynamic ARP table-based binding IP+VLAN+MAC+Port binding L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet Port-based broadcast/multicast suppression and auto-shutdown risk port URPF to prevent IP address counterfeit and attack DHCP Option82 and PPPoE+ upload user's physical location Plaintext authentication of OSPF、RIPv2 and BGPv4 packets and MD5 cryptograph authentication

IP routing	IPv4	<ul style="list-style-type: none"> ARP Proxy DHCP Relay DHCP Server Static route RIPv1/v2 OSPFv2 BGPv4 ECMP Strategy route Route policy
	IPv6	<ul style="list-style-type: none"> ICMPv6 ICMPv6 redirection DHCPv6 ACLv6 OSPFv3 RIPng BGP4+ Configured Tunnel ISATAP 6to4 tunnel IPv6 and IPv4 Tunnels
Service features	ACL	<ul style="list-style-type: none"> Standard and extended ACL Time Range ACL Packet filter providing filtering based on source/destination MAC address, source/destination IP address, port, protocol, VLAN, VLAN range, MAC address range, or invalid frame. System supports concurrent identification at most 50 service traffic Packet filtration of L2~L7 even deep to 80 bytes of IP packet head
	QoS	<ul style="list-style-type: none"> Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark CAR (Committed Access Rate), Traffic Shaping and flow statistics Packet mirror and redirection of interface and self-defined flow Super queue scheduler based on port and self-defined flow. Each port/ flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR. Congestion avoid mechanism, including Tail-Drop and WRED
	Multicast	<ul style="list-style-type: none"> IGMPv1/v2/v3 IGMPv1/v2/v3 Snooping IGMP Filter MVR and cross VLAN multicast copy IGMP Fast leave

		IGMP Proxy PIM-SM/PIM-DM/PIM-SSM PIM-SMv6、PIM-DMv6、PIM-SSMv6 MLDv2/MLDv2 Snooping
Reliability	Loop protection	EAPS and GERP (recover-time <50ms) Loopback-detection
	Link protection	FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms) BFD
	Device protection	VRRP host backup Double fault-tolerant backup of host program and configuration files Board card hot swap 1+1 power hot backup support
Maintenance	Network Maintenance	Telnet-based statistics RFC3176 sFlow LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device Management	Command-line interface (CLI), Console, Telnet and WEB configuration System configuration with SNMPv1/v2/v3 RMON (Remote Monitoring)1/2/3/9 groups of MIB NTP(Network Time Protocol) GN.Link II Server WEB-based network management Ping and Traceroute

Ordering information¹

PN	Description
Switches	
XS26DH	Switch, 12*10/100/1000Base-X SFP, 12 Combo GE, 2*10GE extended slot, 1+1 redundancy power supply slot
Cables 10 G²	
Pluggables²	
XSM851-M5LY	Multimode SFP, 850 nm, 1,25 Gbps, 550 m, LC, DDMI (0 - +70°C)
XSM311-02LY	Multimode SFP, 1310 nm, 1,25 Gbps, 2 km, LC, DDMI (0 - +70°C)
XSSdd1-ffLh	Singlemode SFP, dd = {31 - 1310 nm, 55 - 1550 nm}, 1,25 Gbps, ff = {20, 40, 80, C0, G0, I0, K0 - 20, 40, 80, 120, 160, 180, 200 km respectively}, LC, h = {Y - DDMI, N - no DDMI} (0 - +70°C)
XSCddL-80Lh	SFP CWDM, dd = {lower WL: 27 - 1270nm; ... 45 - 1450nm / upper WL: 47 - 1470nm; ... ; 61 - 1610nm}, 155 - 1280 Mbps Multirate, 80 km, LC, h = {Y - DDMI, N - no DDMI} (0 - +70°C)
XSCdd1-ffLh	SFP CWDM, dd = {lower WL: 27 - 1270nm; ... 45 - 1450nm / upper WL: 47 - 1470nm; ... ; 61 - 1610nm}, 1,25 Gbps, ff = {40 - 40 km, 80 - 80 km, C0 - 120 km}, LC, h = {Y - DDMI, N - no DDMI} (0 - +70°C)
XSDdd1-ffLh	SFP DWDM C band, dd = {17 - 61 ITU grid channel}, 1,25 Gbps, ff = {80 - 80 km, C0 - 120 km}, LC, h = {Y - DDMI, N - no DDMI} (0 - +70°C)
XSBddL-ffgh	SFP BIDI, dd = {23 - TX 1270/RX 1330 nm, 32 - TX 1330/TX 1270 nm, ..., 19 - TX 1510/RX 1590 nm, 91 - TX 1590/RX 1510 nm}, 100 - 1250 Mbps Multirate, ff = {20, 40 - 20, 40 km respectively}, g = {L - LC, S - SC}, h = {Y - DDMI, N - no DDMI} (0 - +70°C)
XSBdd1-02gh	SFP BIDI, dd = {23 - TX 1270/RX 1330 nm, 32 - TX 1330/TX 1270 nm, ..., 19 - TX 1510/RX 1590 nm, 91 - TX 1590/RX 1510 nm}, 1,25 Gbps multimode, 2 km, g = {L - LC, S - SC}, h = {Y - DDMI, N - no DDMI} (0 - +70°C)
XSBdd1-ffLh	SFP BIDI, dd = {23 - TX 1270/RX 1330 nm, 32 - TX 1330/TX 1270 nm, ..., 19 - TX 1510/RX 1590 nm, 91 - TX 1590/RX 1510 nm}, 1,25 Gbps, ff = {20, 40, 60, 80, C0, G0 - 20, 40, 60, 80, 120, 160 km respectively}, LC, h = {Y - DDMI, N - no DDMI} (0 - +70°C)
XSUEM1-M1RN	SFP Copper, Eth. 10/100/1000 Mb, 100 m, RJ45, no DDMI (0 - +70°C)
XTM85A-M3LY	Multimode SFP+, 850 nm, 10 Gbps, 300m, LC, DDMI (0 - +70°C)
XTM31A-ffLY	Multimode SFP+, 1310 nm, 10 Gbps, ff = {M2 - 200 m, O2 - 2 km}, LC, DDMI (0 - +70°C)
XTSddA-ffLY	Singlemode SFP+, dd = {31 - 1310 nm, 55 - 1550 nm}, 10 Gbps, ff = {10, 20, 40, 80, A0 - 10, 20, 40, 80, 100 km respectively}, LC, DDMI (0 - +70°C)
XTCddA-ffLY	SFP+ CWDM, dd = {lower WL: 27 - 1270nm; ... 45 - 1450nm / upper WL: 47 - 1470nm; ... ; 61 - 1610nm}, 10 Gbps, ff = {10 - 10 km, 40 - 40 km, 80 - 80 km}, LC, DDMI (0 - +70°C)
XTDddA-ffLY	SFP+ DWDM C band, dd = {17 - 61 ITU grid channel}, 10 Gbps, ff = {40 - 40 km, 80 - 80 km}, LC, DDMI (0 - +70°C)
XTBddA-ffLY	SFP+ BIDI, dd = {23 - TX 1270/RX 1330 nm, 32 - TX 1330/TX 1270 nm, ..., 19 - TX 1510/RX 1590 nm, 91 - TX 1590/RX 1510 nm}, 10 Gbps, ff = {10, 20, 40, 50, 60 - 10, 20, 40, 50, 60 km respectively}, LC, DDMI (0 - +70°C)
Services	
Spare PS Unit	
XS26DH-PSAC	100W 220V AC power module

XS26DH-PSDC 100W -48V DC power module

SW&FW

Notes:

- ¹ For accurate order specification please contact Xenopt reseller before placing an order. The content of this document is subject to change without notice. Xenopt does not guarantee errorless or outdated information. Please specify any compatibility requirements at time of ordering. Standard MSA compatible pluggable components may not work or some function of these components may not be available in devices that require customized compatible devices. Pluggable components compatible with one type of communications equipment may not work in other type of communications equipment.
- ² Other cables and pluggables are also available. For more information, please contact your XenOpt reseller.

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by XenOpt before they become applicable to any particular order or contract. In accordance with the XenOpt policy of continuous improvement specifications may change without notice.

The publication of information in this data sheet does not imply freedom from patent or other protective rights of XenOpt or others. Further details are available from any XenOpt sales representative.

To find out more, please contact:



www.xenopt.com