



XS26GS

Managed Optical Ethernet Switch



Product description

XS26GS is a managed L2 Ethernet Switch with 24 SFP Based ports and two combo SFP/UTP 10/100/1000 Base TX ports. It is a high-performance switch optimized for service provider access network aggregation and Industrial applications requiring Ethernet access with high noise immunity and wide area video surveillance. Wide set of security features and support of MVR and IGMP snooping makes it especially suitable for aggregation of customer traffic in P2P FTTx ISP networks providing triple play services.

Security features like IP Source guard filtering and Dynamic ARP inspection significantly improve network security without adding to configuration complexity.

Switch enables MAC-less provisioning with DHCP Snooping with option 82. Remote-ID in option 82 can be generated in ways that are compatible with almost all known access switches and provisioning systems and makes the switch a viable replacement in existing P2P installations.

Rugged design, redundant modular field replaceable power supply with fan assembly and low power consumption in 1U rack mountable enclosure reduce installation, maintenance and operating costs.

Features

Switching:

- 8K address table for auto-learned unicast or static unicast/multicast addresses
- 802.1p, Port and DiffServ based QoS package classification with 4 priority queues. Queue mapping and DSCP mapping support.
- 802.1Q, Port based, MAC based and protocol based VLANs
- 4K 802.1Q based VLANs
- VLAN VPN – extended Q in Q
- GARP/GVRP
- Manual, static and dynamic (802.1ad) port aggregation, up to 16 trunk groups of up to 8 member ports with flexible load distribution control and fail-over function
- 802.1d Spanning Tree Protocol, 802.1w Rapid Spanning Tree Protocol and 802.1s Multiple Spanning Tree Protocol.
- Per port selectable Loopback detection function (LBD)
- Jumbo frame of up to 9216 bytes

Multicast:

- MVR – Multicast VLAN Registration protocol for simple IPTV distribution
- IGMP v1,v2,v3 Snooping with fast leave and IGMP Proxy
- QoS:
- Per port egress, ingress and bi-directional rate control
- 802.1p priority, and DSCP priority
- 4 output queues for each port
- Strict priority and WRR queue Scheduling

Security:

- DHCP Snooping with option 82 and configurable Remote-ID, compatible with most commissioning systems including Genexis GAPS MAC-less commissioning.
- IP Source Guard – prevents customer address spoofing, unauthorized manual address changes

- Dynamic ARP Inspection (DAI) – prevents unauthorized data redirection
- DHCP request and ARP rate limit – prevents DHCP and ARP DoS attacks
- Ability to set max number of MAC addresses learned on port
- Port isolation
- Up to 16 isolated VLANs (PVLANS)
- 802.1x Port-based access control and MAC authentication
- L2 to L4 Access Control Lists (ACL) for , traffic classification, traffic monitoring and statistics based on source MAC address, destination MAC address, source IP, destination IP, port, typology type, VLAN, CoS, DSCP, IP type, TCP/UDP port
- Multiple combination of MAC address, IP and Port binding
- Static and dynamic MAC addressing configuration, and black hole MAC address filtering
- Storm Control for any combination of multicast, broadcast and Destination Lookup Failed (DLF) traffic

Management:

- Secure Shell (SSH) v2.0, Telnet and Console management with CLI
- Web based management
- SNMP v1,v2c,v3
- Link Layer Discovery Protocol (LLDP)
- User accounts with three access privilege levels
- User configurable port mirroring supports 4 mirroring groups of ingress/egress/both data

Redundancy:

- Field replaceable power supply and fans provides power redundancy with status monitoring features.
- Fan status, temperature monitoring, CPU and memory status reporting.

Network Protocol and Standards

802.3x, 802.1x, IETF: RFC1157 SNMP, RFC 1112/2236 IGMP, RFC854 Telnet, RFC IEEE: 802.3, 802.3u, 802.3z, 802.3ab, 802.1d/w/s, 802.1p, 802.1q, 802.1v, 802.1ad, 1123/1493/1643 MIB

SFP Based Fiber Optic Interface Options

- All Standard MSA compatible gigabit and 100Mb SFP modules are compatible with XS26GS switch. XenOpt offers a selection of cost effective high quality SFP modules for ISP and industrial applications:
 - Single fiber single mode 100Mb SFP, 1550/1310 or 1490/1310 20 to 40 km reach
 - Single fiber single mode 1Gbit SFP, 1550/1310 or 1490/1310 20 to 40 km reach
 - Dual fiber single mode 1Gbit SFP and 1Gb colorless, CWDM and DWDM modules with up to 120km reach
 - Dual fiber multi mode 1Gbit SFP 550m and 2km reach, 850nm and 1310nm
 - Dual fiber multi mode 100Mbit SFP 2km reach, 850nm and 1310nm

Ordering information

PN	Description
Switches	
XS26GSS	L2 Managed Fiber Optic Ethernet Switch with 24 x SFP 1Gb and 2x Combo SFP/10/100/1000 UTP with single PS, additional PS may be installed
XS26GSD	L2 Managed Fiber Optic Ethernet Switch with 24 x SFP 1Gb and 2x Combo SFP/10/100/1000 UTP with dual PS installed
Cables 10 Gb	
XCE-SFSFNgg	Cable, 10GbE, Direct attach, Optic, SFP+ to SFP+, length: gg = {01 - 1m; 02 - 2m; 03 - 3m; 04 - 4m; 05 - 5m; 06 - 6m; 07 - 7m; 10 - 10m; 20 - 20m; 50 - 50m; C1 - 100m}
XCD-SFSFNgg	Cable, 10GbE, Direct attach, Copper, SFP+ to SFP+, length: gg = {01 - 1m; 02 - 2m; 03 - 3m; 04 - 4m; 05 - 5m}
Cables 40 Gb	
XCD-QS4SNgg	Cable, 40GbE, Direct attach, Copper, QSFP+ to 4 x SFP+, length: gg = {01 - 1m; 03 - 3m; 05 - 5m}
XCD-QSQSNgg	Cable, 40GbE, Direct attach, Copper, QSFP+ to QSFP+, length: gg = {01 - 1m; 03 - 3m; 05 - 5m}
XCD-SFSFNgg	Cable, 10GbE, Direct attach, Copper, SFP+ to SFP+, length: gg = {01 - 1m; 02 - 2m; 03 - 3m; 04 - 4m; 05 - 5m}
XCE-QS4SNgg	Cable, 40GbE, Direct attach, Optic, QSFP+ to 4 x SFP+, length: gg = {01 - 1m; 02 - 2m; 03 - 3m; 04 - 4m; 05 - 5m; 06 - 6m; 07 - 7m; 10 - 10m; 20 - 20m; 50 - 50m; C1 - 100m}
Pluggables	
XSMddC-02Lh	Multimode SFP, dd = {85 - 850 nm, 31 - 1310 nm}, 100 Mbps, 2 km, LC, h = {Y - DDMI, n - no DDMI} (0 - +70°C)
XSSddC-ffLh	Singlemode SFP, dd = {31 - 1310 nm, 55 - 1550 nm}, 100 Mbps, ff = {20, 40, 80, C0, F0, K0, O0 - 20, 40, 80, 120, 150, 200, 240 km respectively}, LC, DDMI (0 - +70°C)
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)
XSCddC-ffLY	SFP CWDM, dd = {lower WL: 27 - 1270nm; ... 45 - 1450nm / upper WL: 47 - 1470nm; ... ; 61 - 1610nm}, 100 Mbps, ff = {C0 - 120 km; F0 - 150 km}, LC, 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)

XSBddC-ffgh	SFP BIDI, dd = {27 - 1270 nm, 29 - 1290 nm, ..., 61 - 1610 nm}, 100 Mbps, ff = {20, 40, 60, 80, C0, G0, K0 - 20, 40, 60, 80, 120, 160, 200 km respectively}, g = {L - LC, S - SC}, h = {Y - DDMI, n - no DDMI} (0 - +70°C)
XSBddL-ffgh	SFP BIDI, dd = {27 - 1270 nm, 29 - 1290 nm, ..., 61 - 1610 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 = {27 - 1270 nm, 29 - 1290 nm, ..., 61 - 1610 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 = {27 - 1270 nm, 29 - 1290 nm, ..., 61 - 1610 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)
Spare PS Unit	
XAPFA00	AC Power supply & fan unit for XS26GS switch, 100-240V 50-60Hz AC
XAPFD01	DC Power supply & fan unit for XS26GS switch, 100-240V
Services	Services
SW&FW	Firmware and software

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.

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