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ProSAFE® XS708Ev2 and XS708E (v1) 10-Gigabit Ethernet Switches

Technical Specifications

PRODUCT	XS708Ev2	XS708E (v1)
100M/1G/10G RJ-45 copper ports	8	
1G/10G SFP+ (fiber) ports	1 shared (combo)	
PERFORMANCE SPECIFICATION		
Packet buffer memory (Dynamically shared across only used ports)	2MB	
Forwarding modes	Store-and-forward	
Bandwidth	160Gbps	
Priority queues	8	4
Priority queuing	Weighted Round Robin (WRR)	
MAC Address database size (48-bit MAC addresses)	16K	32K
Multicast groups	128	
Number of VLANs	128	64
Packet forwarding rate (64 byte packet size) (Mfps or Mpps)	119.0 Mfps	
Speed / Latency (copper ports)	100Mbps: <8us 1Gbps: <3us 10Gbps: <3us	100Mbps: <9us 1Gbps: <3us 10Gbps: <7us
Speed / Latency (SFP+ fiber port)	10Gbps: <1.4us	Not tested
Jumbo frame support	Up to 9K packet size	
Acoustic noise level @ 25°C (dBA) (ANSI-S10.12)	36.7 dBA	34.7 dBA
Mean Time Between Failures (MTBF) @ 25°C	397,731 hours	221,813 hours
L2 SERVICES - VLANS		
IEEE 802.1Q VLAN tagging	Yes	
Port-based VLANs (physical)	Yes	
L2 SERVICES - AVAILABILITY		
Broadcast, multicast, unknown unicast storm control	Yes	
Static Manual LAGs (Port Trunking)	Yes	
IEEE 802.3x (full duplex and flow control)	Yes	
L2 SERVICES - MULTICAST FILTERING		
IGMP snooping (v1, v2, and v3)	Yes (IGMP v3 source filtering not supported)	
IGMP snooping querier	No	
Block unknown multicast	Yes	
Static multicast router port	No	
L3 SERVICES - DHCP		
DHCP client	Yes	

ProSAFE® XS708Ev2 and XS708E (v1) 10-Gigabit Ethernet Switches — Product Comparison

XS708Ev2 vs. XS708E (v1)

PRODUCT	XS708Ev2	XS708E (v1)
LINK AGGREGATION		
Static Manual LAGs (Port Trunking)	Yes	
# of Static LAGs / # of members in each LAG	4 LAGs with max 8 members in each LAG	4 LAGs with max 4 members in each LAG
NETWORK SECURITY		
Broadcast, multicast, unknown unicast storm control	Yes	
DoS attacks prevention	Yes	
QUALITY OF SERVICE (QOS)		
Port-based rate limiting	Ingress and egress	
Port-based QoS	Yes	
IEEE 802.1p COS	Yes	
IPv4 DSCP	Yes	
IPv4 ToS	Yes	
TCP/UDP-based	No	
Weighted Round Robin (WRR)	Yes	
Strict priority queue technology	No	

IEEE NETWORK PROTOCOLS

- IEEE 802.3 Ethernet
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3an 10GBASE-T 10Gbps Ethernet Over Copper Twisted Pair Cable
- IEEE 802.3ae 10-Gigabit Ethernet Over Fiber (10GBASE-SR, 10GBASE-LR, 10GBASE-LRM, 10GBASE-ER, 10GBASE-LX4)
- IEEE 802.3aq 10-Gigabit over Fiber (10GBASE-LRM)
- IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX
- IEEE 802.1Q VLAN Tagging
- IEEE 802.3x Full-Duplex Flow Control
- IEEE 802.1p Class of Service
- IEEE 802.3az Energy Efficient Ethernet (EEE)

MANAGEMENT	XS708Ev2	XS708E (v1)
MANAGEMENT		
Password management	Yes	
Web browser-based graphical user interface (GUI)	Yes	No
ProSAFE Plus Configuration Utility (PCU) for multi-switch management	Yes	
Firmware upgrade	TFTP (Plus Utility) / HTTP (Web GUI)	TFTP (Plus Utility) only
Config file transfers (backup, restore)	Plus Utility or Web GUI	Plus Utility only
Cable test utility	Yes	
Port mirroring	Yes	
Max number of source ports allowed (many-to-one port mirroring)	7	
Mirroring port can still work normally?	Yes	No
LEDS		
Per port	Speed, Link, Activity	
Per device	Power and Fan	
PHYSICAL SPECIFICATIONS		
Dimensions (W x D x H)	440 x 204 x 43 mm (17.3 x 8.0 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)
Weight	2.80 kg (6.17 lb)	3.60 kg (7.94 lb)

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PRODUCT	XS708Ev2	XS708E (v1)
POWER CONSUMPTION		
Power Supply	Fixed internal PSU, 100–240VAC, 50–60Hz, 2A max Power cord localized to country of sale	Fixed internal PSU, 100–240VAC, 50–60Hz, 2.2A max Power cord localized to country of sale
Max power (worst case, all ports used, line-rate traffic) (Watts)	43.4 W	58.8 W
Min power (link-down standby) (Watts)	13.7 W	Not tested
Heat Dissipation (max and min) (BTU/hr)	Max: 148.39 BTU Min:: 46.85 BTU	Max: 201.10 BTU Min:: Not tested
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)	No
Short cable power reduction	Yes	No
Auto power-down	Yes	No
Fan(s)	2	
ENVIRONMENTAL SPECIFICATIONS		
Operating		
Operating temperature	0° to 50°C (32° to 122°F)	
Humidity (relative)	90% maximum relative humidity (RH), non-condensing	
Altitude	10,000 ft (3,000 m) maximum	
Storage		
Storage temperature	−20° to 70°C (− 4° to 158°F)	−40° to 70°C (− 40° to 158°F)
Humidity (relative)	95% maximum relative humidity, non-condensing	
Altitude	10,000 ft (3,000 m) maximum	
ELECTROMAGNETIC EMISSIONS AND IMMUNITY		
Certifications	CE mark, commercial	CE mark, commercial
	47 CFR FCC Part 15, SubpartB, Class A; ANSI C63.4: 2014	FCC Part 15, Subpart B, Class A; ANSI C63.4–2009
	EN 55022:2010 + AC:2011, Class A	EN55022: 2010 Class A
	EN 55024:2010	EN 55024:2010
	AS/NZS CISPR 22:2009 + A1:2010, Class A	CISPR 22: 2008 ED. 5.2, AS/NZS CISPR 22:2009
	V–3/2015.04, Class A	V–3/2012.04
	V–4/2012.04	
	ICES–003:2012 Issue 5, Class A	
	Russia EAC mark	Russia EAC mark
	Korea KC mark	Korea KC mark
	CCC (China Compulsory Certificate)	CCC (China Compulsory Certificate)
	CNS 13438	CNS 13438
Electromagnetic Compliance (Class A or B)	Class A	

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PRODUCT	XS708Ev2	XS708E (v1)
SAFETY CERTIFICATIONS		
Certifications	CB mark, commercial	CB mark, commercial
	UL/cUL Listed (UL 60950-1)/CAN/CSA C22.2 No. 60960-1-07	UL 60950-1
	EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013	EN 60950-1:2006+A11:2009+A1:2010+A12:2011
	IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013	IEC60950-1:2005 (Second Edition) +A1:2009:
	AN/NZS 60950.1:2011/Amdt 1: 2012	
	Russia EAC mark	Russia EAC mark
	CCC (China Compulsory Certificate)	CCC (China Compulsory Certificate)
WARRANTY AND SUPPORT		
ProSAFE Lifetime Warranty	Included, Lifetime*	
Lifetime Online Technical Support*	Included, Lifetime*	
Lifetime Next-Business-Day (NBD) Replacement	Included, Lifetime*	
ProSUPPORT OnCall 24x7 Service Packs**	Category 1: PMB0311 (1 yr.) PMB0331 (3 yrs.) PMB0351 (5 yrs.)	

* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies - not software or external power supplies; see http://www.netgear.com/about/warranty/ for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.

** The NETGEAR OnCall 24x7 contract provides unlimited phone and email technical support for your networking product. For ProSAFE products purchased prior to 06/2014, also includes Next-Business-Day (NBD) hardware replacement.

† NETGEAR #1 in Fixed Web(Smart)-Managed Worldwide Market Share according to IHS Infonetics Ethernet Switches Market Share and Forecast, 1Q15 Edition, June 2015. NETGEAR #1 in US Market Share according to NPD data for Unmanaged and Web/Smart Switches, April 2015.

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