



Technical Specifications

PRODUCT	XS712T	XS728T
		
100/1000/10GBase-T RJ-45 copper ports	12	24
SFP+ 1000/10GBase-X fiber ports	2 (combo)	4 (dedicated)
USB port	n/a	1
PERFORMANCE SPECIFICATION		
Packet buffer memory (Dynamically shared across only used ports)	2MB	3MB
Forwarding modes	Store-and-forward	
Bandwidth	240Gbps	560Gbps
Priority queues	8	
Priority queuing	Weighted Round Robin (WRR)	
MAC address database size	32K	16K
Addressing	48-bit MAC address	
Multicast groups	1024	512
Number of IPv4 static routes	32	64
Number of IPv6 static routes	n/a	64
Number of routed VLANs	256	512
Number of ARP cache entries	1024	
Number of DHCP snooping bindings	8K	1K
Access Control Lists (ACLs)	100 shared for MAC, IP and IPv6 ACLs	164 shared for MAC, IP and IPv6 ACLs
Jumbo frame support	Up to 9K packet size	Up to 10K packet size
Acoustic noise level @ 25°C (dBA) (ANSI-S10.12)	49.7 dBA	41.6 dBA
Mean Time Between Failures (MTBF) @ 25°C	211,197 hours	514,977 hours
L2 SERVICES - VLANS		
IEEE 802.1Q VLAN tagging	Yes	
IP-based VLANs	Yes	
MAC-based VLANs	Yes	
Auto-voice VLAN	Based on phone's OUI bytes (internal database, or user-maintained) or protocols (SIP, H323 and SCCP)	
Auto-video VLAN	Yes	
Private VLAN	Yes	

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L2 SERVICES - AVAILABILITY		
Broadcast storm control		Yes
IEEE 802.3ad - LAGs (LACP)		Yes
IEEE 802.3x (full duplex and flow control)		Yes
IEEE 802.1D Spanning Tree Protocol		Yes
IEEE 802.1w Rapid Spanning Tree Protocol		Yes
IEEE 802.1s Multiple Spanning Tree Protocol		Yes
L2 SERVICES - MULTICAST FILTERING		
IGMP snooping (v1, v2 and v3)		Yes
MLD snooping support (v1 and v2)		Yes
IGMP snooping queries		Yes
Block unknown multicast		Yes
L2 SERVICES - DHCP		
DHCP client		Yes
DHCP snooping		Yes
L3 SERVICES - ROUTING		
IPv4 static routing	32	64
IPv6 static routing	n/a	64
VLAN routing		Yes
Host ARP table		1024
Router Discovery (IRDP)	Yes	No
Number of IP interfaces (port or VLAN)	15	32
LINK AGGREGATION		
IEEE 802.3ad - LAGs		Yes
Manual LAG		Yes
# of LAGs / # of members in each LAG	LACP (8 LAGs with max 8 members in each LAG)	
NETWORK MONITORING AND DISCOVERY SERVICES		
802.1ab LLDP		Yes
SNMP		v1, v2c, v3
RMON group 1,2,3,9		Yes




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NETWORK SECURITY		
IEEE 802.1x		Yes
Guest VLAN		Yes
RADIUS-based VLAN assignment via .1x		Yes
MAC-based .1x		600
RADIUS accounting		Yes
Access Control Lists (ACLs)		L2 / L3 / L4
IP-based ACLs (IPv4 and IPv6)		Yes
MAC-based ACLs		Yes
TCP/UPD-based ACLs		Yes
MAC lockdown		Yes
MAC lockdown by the number of MACs		Yes
IEEE 802.1x RADIUS port access authentication		Yes
Port-based security by locked MAC addresses		Yes
Network storm protection, DoS		Yes
Broadcast, unicast, multicast DoS protection		Yes
DoS attacks prevention		Yes
QUALITY OF SERVICE (QOS)		
Access Lists		Yes
L2 MAC, L3 IP and L4 port ACLs		Yes
Rate limiting	Ingress and egress (egress only on interface queue page)	Ingress and egress
Port-based QoS		Yes
Support for IPv6 fields		Yes
DiffServ QoS		Yes
IEEE 802.1p COS		Yes
Destination MAC and IP		Yes
IPv4 and v6 DSCP		Yes
IPv4 and IPv6 ToS		Yes
TCP/UDP-based		Yes
Weighted Round Robin (WRR)		Yes
Strict priority queue technology		Yes
Auto-VoIP	Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address	
Auto-Video		Yes

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IEEE NETWORK PROTOCOLS		
<ul style="list-style-type: none"> • IEEE 802.3 Ethernet • IEEE 802.3u 100BASE-T • IEEE 802.3ab 1000BASE-T • IEEE 802.1Q VLAN Tagging • IEEE 802.3x Full-Duplex Flow Control • IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX • IEEE 802.3an 10GBASE-T 10 Gbit/s Ethernet Over Copper Twisted Pair Cable • IEEE 802.3ae 10-Gigabit Ethernet Over Fiber (10GBASE-SR, 10GBASE-LR, 10GBASE-ER, 10GBASE-LX4) 	<ul style="list-style-type: none"> • IEEE 802.3ad Trunking (LACP) • IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED) • IEEE 802.1p Class of Service • IEEE 802.1D Spanning Tree (STP) • IEEE 802.1s Multiple Spanning Tree (MSTP) • IEEE 802.1w Rapid Spanning Tree (RSTP) • IEEE 802.1x RADIUS Network Access Control • IEEE 802.3az Energy Efficient Ethernet (EEE) Compliant 	
MANAGEMENT		
Password management		Yes
Configurable management VLAN		Yes
Admin access control via RADIUS and TACACS+		Yes
IPv6 management		Yes
SNTP client over UDP port 123		Yes
SNMP v1/v2c		Yes
SNMP v3 with multiple IP addresses		Yes
RMON group 1,2,3,9		Yes
Port mirroring		Yes
Many-to-one port mirroring	12	8
Web-based graphical user interface (GUI)		Yes
Smart Control Center (SCC) for multi-switch management		Yes
Dual software (firmware) image		Yes
Dual configuration file		Yes
Cable test utility		Yes
SSL/HTTPS Web-based access (version)	Yes (v3)	No
TLS Web-based access (version)	Yes (v1.0)	Yes (v1.0 ~ v1.2)
File transfers (uploads, downloads)	TFTP / HTTP	
HTTP upload/download (firmware)	Yes	
Syslog (RFC 3164)	Yes	
USB port for firmware and config upload/download	n/a	Yes
LEDS		
Per port	Speed, Link, Activity	
Per device	Power and Fan	
PHYSICAL SPECIFICATIONS		
Dimensions (W x D x H)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)	440 x 310 x 43 mm (17.3 x 12.2 x 1.7 in)
Weight	4.04 kg (8.9 lb)	5.04 kg (11.1 lb)

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POWER CONSUMPTION		
Worst case, all ports used, line-rate traffic	98.2W	173.3W
Energy Efficient Ethernet (EEE) IEEE 802.3az compliant	Yes	
Auto-EEE mode	Yes (deactivated by default)	
Power back-off	Drops power consumption by 15% to 20% when short copper cables are detected	
Fan	2	4
ENVIRONMENTAL SPECIFICATIONS		
Operating		
Operating temperature	0° to 50°C (32° to 122°F)	
Humidity (relative)	90% maximum relative humidity (RH), non-condensing	
Altitude	10,000ft (3,000m) maximum	
Storage		
Storage temperature	-40° to 70°C (-40° to 158°F)	-20° to 70°C (-4° to 158°F)
Humidity (relative)	95% maximum relative humidity, non-condensing	
Altitude	10,000ft (3,000m) maximum	
ELECTROMAGNETIC EMISSIONS AND IMMUNITY		
Certifications	CE mark, commercial	
	FCC Part 15 Class A, VCCI Class A	
	Class A EN 55022 (CISPR 22) Class A	
	Class A C-Tick	
	EN 55024	
	CCC	
SAFETY		
Certifications	CE mark, commercial	
	CSA certified (CSA 22.2 #950)	
	UL listed (UL 1950)/cUL IEC 950/EN 60950	
	CCC (China Compulsory Certificate)	
WARRANTY AND SUPPORT		
ProSAFE Lifetime Warranty	Included, Lifetime*	
Lifetime 24x7 Online Technical Support*	Included, Lifetime*	
Lifetime Next-Business-Day (NBD) Replacement	Included, Lifetime*	
ProSUPPORT OnCall 24x7, Category 2** Service Packs	PMB0312 (1 yr.) PMB0332 (3 yrs.) PMB0352 (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 hardware replacement.

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