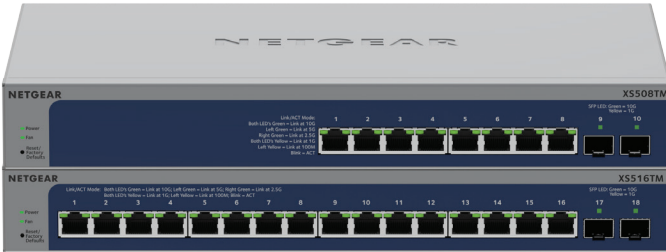


S3600 Series 10G/Multi-Gigabit Ethernet Smart Switches



Top-of-the-line cloud manageable
Smart Switch for 10G speed connectivity

As a leading provider of network equipment, NETGEAR® Business understands the importance of providing a great choice of speed and power to support core business needs. With the growth of network speed, virtualization, and cloud-based applications like VoIP, video streaming, and IP surveillance, businesses in all sectors must keep up to ensure success. Also, the increase in speeds for access points now require faster speeds in the network.

The XS508TM and XS516TM are 10G/ Multi-Gigabit Ethernet Smart Switches with 2 10G SFP+ ports that joined the

NETGEAR Total Network Solution family, adding the first fully 10G series to our Insight compatible switch line. NETGEAR Pro WiFi Access Points with power adapters are perfect for use with the XS508TM and XS516TM switches.

NETGEAR Smart Switches offer powerful L2+/Lite L3 features and enhanced performance and usability. They are purposely designed for modern applications and support BYOD which requires companies to have more bandwidth to ensure smooth network connectivity with no congestion.

Furthermore, for 2.5G or 5G speeds there is no requirement to upgrade your cabling beyond Cat5E, allowing for higher speeds without additional cabling upgrade costs.

These 10G/Multi-Gigabit Ethernet Smart Switches support NETGEAR Insight Cloud management, allowing businesses simpler configuration and deployment from anywhere using the NETGEAR Insight app from mobile devices or the Insight Cloud portal from any device with a web browser.

Highlights

Temperature- and load-based fan-speed control combines accurate monitoring with minimized acoustic noise which is ideal for office environments. The S3600 Series operates quietly with a maximum of 28.63 dBA even at full power and 25° C (77° F) ambient.

More Powerful Switch with 10G/Multi-Gigabit Speed

- 8 x or 16 x 10G/Multi-Gigabit Ethernet ports
- 2 x Dedicated 10G SFP+ fiber ports

Fast and flexible solution for data, voice and video converged network

- Non-blocking switching with 200Gbps bandwidth (XS508TM) and 360Gbps bandwidth (XS516TM)
- Flexible wall-mounting and rackmounting option

Highlights

Ideal companion to your NETGEAR Pro WiFi Access Point

Powerful Connectivity and Security

- Advanced VLAN support for better network segmentation
- L2/L3/L4 access control lists (ACLs) for granular network access control including 802.1x port authentication
- Advanced QoS (Quality of Service) for traffic prioritization including port-based, 802.1p and L2/L3/L4 DSCP-based
- Auto DoS (Denial of Service) prevention
- IGMP Snooping and Querier for multicast optimization
- Egress Rate limiting and priority queuing for better bandwidth allocation

- Port mirroring for network monitoring
- Energy Efficient Ethernet (IEEE 802.3az) for maximum power savings
- IPv6 management: IPv6 QoS, IPv6 ACL, IPv6 Multicast, and static and dynamic IPv6 address assignment
- Cable test to troubleshoot connection issues
- Easy-to-use Web browser-based management GUI available in English, German and Japanese
- SNMP v1, v2c, v3 and RMON remote monitoring

Fully-integrated Cloud-manageable Device

- Optional NETGEAR Insight Remote/ Cloud management. Easily activated through the local device GUI.

Smart IT, not Big IT

- Scripting and management via direct text command using Lite Command Line Interface (CLI).
- NETGEAR Switch Discovery Tool (NSDT) to discover, register and access the local browser interface to configure the switches

NETGEAR Quality and Reliability

- Worry-free Limited Lifetime Warranty*, online technical chat support and Next Business Day (NBD) replacement.



Hardware-at-a-Glance

FRONT				REAR	SIDE
Model Name	Form-Factor	1G/2.5G 1000BASE-T RJ-45 Copper Ports	10G SFP+ Uplink	Power Supply	Fans
XS508TM	Desktop, wall mount and rack mount	8	2	1 internal PSU, fixed	2 internal fans, fixed
XS516TM	Desktop, wall mount and rack mount	16	2	1 internal PSU, fixed	3 internal fans, fixed

Software-at-a-Glance

LAYER 2+ / LAYER 3 LITE FEATURES						
Management	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	VLANs	IEEE (802.3az) Energy Efficient Ethernet	Convergence	Link Aggregation
Web Browser-based GUI (HTTP/HTTPS), RMON, SNMP, NETGEAR Insight Cloud management via mobile app and Insight portal	L2, L3, L4 Ingress	IGMP Snooping, Querier	Static, Dynamic, VoIP, Voice, WiFi, Camera	Yes	LLDP-MED, RADIUS, 802.1X	LACP and Manual Static LAGs (up to 8 LAGs with max 8 members in each LAG)

Performance-at-a-Glance

Model Name	Packet Buffer	CPU	ACL	MAC Address Table ARP Table VLANs	Fabric	Latency (64-Byte Packet)	Multicast IGMP Group
XS508TM	2 MB	600 MHz Single Core 1GB RAM 256MB SPI FLASH	100 shared (ingress)	16K Max MAC 512 VLANs	200Gbps line-rate	1G Copper:<: 2.37µsec 2.5G Copper:<:5.66µsec 10G SFP+ Fiber:<:0.84µsec	512
XS516TM	4 MB	1.25 GHz Single Core 1GB RAM 256MB SPI FLASH	100 shared (ingress)	16K Max MAC 512 VLANs	360Gbps line-rate	1G Copper:<: 2.02µsec 2.5G Copper:<:6.20µsec 10G SFP+ Fiber:<:0.90µsec	512

Features and Benefits

Hardware Features	
Fully-integrated Cloud-manageable Devices	Requires no additional hardware (cloud keys, network portals, local servers, VPN or proxy appliances etc) to directly connect to the cloud and allow remote management. No additional hardware or software. Just switch to Insight Cloud Management mode through Web browser-based user interface and go.
10G BASE T Copper Ethernet	Support high-density VoIP, Surveillance and Wi-Fi AP deployments, scalable for future growth.
10G 1000BASE-X SFP ports	Four dedicated 10G SFP+ ports for aggregation to the network core. Support for Fiber and Copper modules.
Low Acoustics	Temperature- and load-based fan-speed control allow for quiet operation in both desktop, wall mount or rack mount configuration.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for ongoing operation cost savings.
Desktop, wall mount and rack mount (kit available)	Flexible deployment on desktop and also supports wall mounting and rack mounting.
Ideal companion to your Pro WiFi access points	Connect and manage all Pro WiFi access points from a single dashboard with NETGEAR Insight Remote Cloud Management.
Software Features	
Remote setup, management, and monitoring anywhere, anytime, from your mobile device, PC, Mac, or tablet	Locally or remotely setup, configure, manage, monitor and even troubleshoot your network from anywhere, anytime. Check network status, view dashboards for network health and activity, update firmware remotely, and more. No need to be on-site, open up ports to your network, or VPN into it.
Auto-join and Configure (Zero-Touch Provisioning)	Additional Insight managed devices added to the network automatically inherit settings and configuration.
Multi-site, Multi-network Single Pane-of-Glass View	View and configure multiple networks across multiple sites, all from one single app; NETGEAR Insight.
Comprehensive IPv6 Support for Management, ACLs and QoS	Build current network with the future in mind. Ensure investment protection and a smooth migration to an IPv6-based network without switch replacement.
Robust security features: <ul style="list-style-type: none"> • 802.1x authentication (EAP) • Port-based security by locked MAC 	Build a secured, converged network with all types of traffic by preventing external attacks and blocking malware while allowing secure access for authorized users.
Comprehensive QoS features: <ul style="list-style-type: none"> • Port-based or VLAN 802.1p-based prioritization • Layer 3-based (DSCP) prioritization • Port-based ingress rate limiting 	Advanced controls for optimized network performance and better delivery of mission-critical traffic such as voice and video.
Auto-VoIP, Auto-Voice VLAN	Automatic Voice over IP prioritization (Auto-VoIP) simplifies most complex multi-vendor IP telephone deployments either based on OUI bytes (default database and user-based OUIs) in the phone source MAC address, providing the best class of service to VoIP streams (both data and signaling) over other ordinary traffic by classifying traffic, and enabling correct egress queue configuration.

Software Features (continued)	
Auto-WiFi, Auto-Camera VLAN	Auto-WiFi VLAN and Auto-Camera VLAN allows the switch to forward packets with the entered OUIs of Wireless APs and cameras in a special VLAN with priority settings of that VLAN automatically.
IGMP Snooping	Facilitate fast receiver joins and leaves for multicast streams. Save cost and improve network efficiency by ensuring multicast traffic only reaches designated receivers without the need of an extra multicast router.
Protected Ports	Ensure no exchange of unicast, broadcast, or multicast traffic between the protected ports on the switch, thereby improving the security of your converged network. This allows your sensitive phone conversations to stay private and your surveillance video clips can be forwarded to their designated storage device without leakage or alteration.
DHCP Snooping	Ensure IP address allocation integrity by only allowing DHCP messages from trusted DHCP servers and dropping malformed DHCP messages with a port or MAC address mismatch.
Dynamic VLAN Assignment (RADIUS)	IP phones and PCs can authenticate on the same port but under different VLAN assignment policies. Users are free to move around and enjoy the same level of network access regardless of their physical location on the network.
Link Aggregation (LACP)	Build up bigger bandwidth to support aggregated uplink/downlink traffic or to provide redundant link(s). Aggregate up to 8 ports for 8Gbps connections.
Loop Prevention and Auto-DoS Prevention	Detect and prevent accidental network loops while protecting against DoS attacks through auto port shutdown.
Port Mirroring and Cable Test	Many-to-one port mirroring for better and quicker network diagnostics and troubleshooting. Cable test easily identifies bad Ethernet cables.
Dual Firmware Images	Dual firmware images for transparent firmware updates with minimum service interruption.
Firmware Updates from Cloud	Direct cloud-to-device firmware updates, initiated and/or scheduled using the Insight app, or Insight Cloud Portal, anytime, anywhere.

NETGEAR[®]
INSIGHT

Simply activate NETGEAR Insight Cloud management to manage your network. Anytime. Anywhere.

Activating NETGEAR Insight Cloud management enables users to experience simpler configuration and deployment from anywhere using the NETGEAR Insight app from mobile devices or the Insight Cloud portal from any device with a web browser.

Unique advanced management features of these Insight managed devices include:

- Remote monitoring and management with performance dashboards and troubleshooting features including remote reboot, port and PoE advanced configuration including remote enable/disable/power-cycle, PoE scheduling, and firmware updates with auto-schedule mode
- Single pane-of-glass multi-device, multi-network, and multi-site remote monitoring and notifications with the NETGEAR Insight app
- Full-fledged local or remote access for configuration, management, and monitoring on a larger display using your tablet, laptop, or desktop computer through the NETGEAR Insight Cloud portal
- Configurable in-app and email alerts and notifications
- Auto-join and configure (zero-touch provisioning) for additional Insight managed devices added to the network
- Centralized network configuration (policies) across Insight managed switches, and access points for VLANs, ACLs, QoS, LAGs, etc.
- Cloud-based network administration, monitoring, and firmware management

For more information about NETGEAR Insight-manageable device settings, please see at:
<https://www.netgear.com/support/product/Insight.aspx>

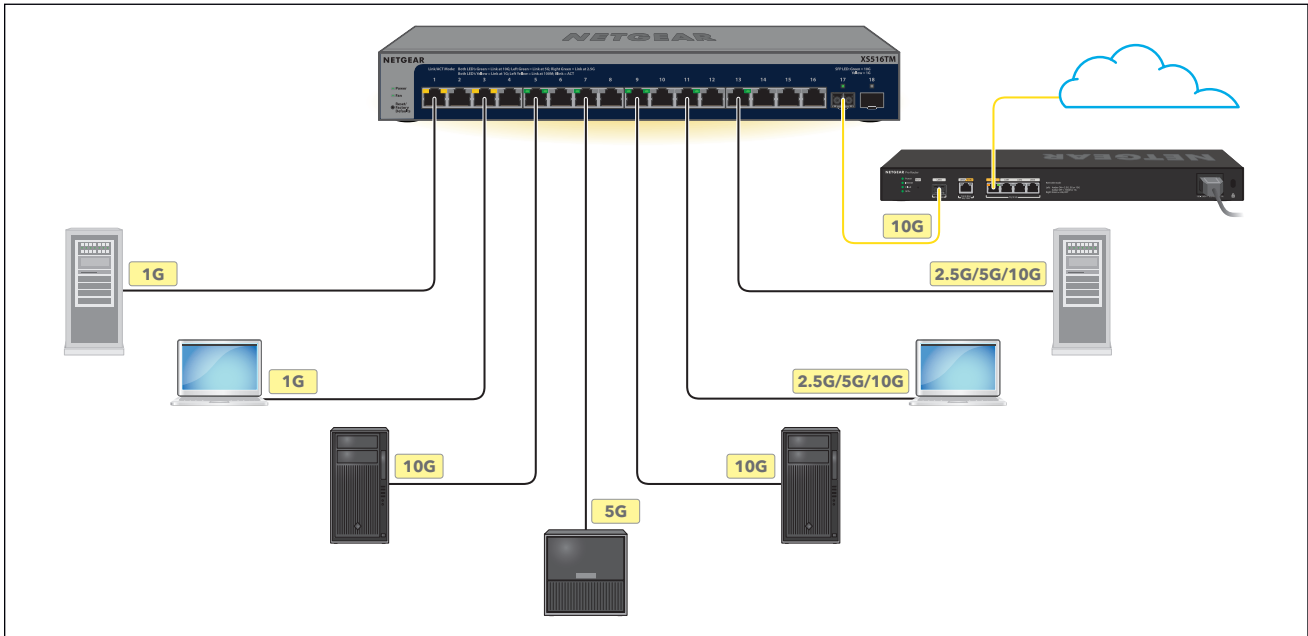


As a part of NETGEAR's Total Network Solution, this product is compatible with a wide range of routers, access points and switches that can be remotely managed through the Insight Remote Cloud Management platform.

Find out more: www.netgear.com/total

Application Sample

Get Multi-Gigabit and 10G Speed that your business deserves



XS516TM Sample Connection Diagram

Technical Specifications

Technical Specifications	XS508TM	XS516TM
1G/2.5G Ethernet RJ-45 Copper ports (100M/1G/2.5G) - 1000BASE-T	8	16
10G SFP+ (fiber) ports (1G/10G) - 1000BASE-X	2 (dedicated)	
Power Supply	Internal Power Supply	
LEDS		
Front (per device)	Power (with Cloud Mode Indicator), Fan	
Front (per port)	Speed/Link/Activity	
Unified Network Management (Discovery, Setup, Monitoring, and Management) through NETGEAR Insight Cloud Management		
Discovery, setup, monitoring and management	NETGEAR Insight mobile app on phone or tablet; Insight Cloud portal from PC, Mac, or tablet web browser	
Remote/Cloud management	Anywhere, anytime, from the palm of your hand using Insight mobile app or from any PC, Mac, or tablet web browser using the Insight Cloud portal	
Centralized network configuration (policies)	Centralized network configuration (policies) across Insight managed switches, and wireless access points for VLANs, ACLs, QoS, and LAGs	
Device auto-join and configure (zero-touch provisioning)	Additional Insight managed devices added to the network automatically inherit the network configuration	
Multi-site, multi-network single pane-of-glass view	Manage multiple sites, locations, and networks in a single view using the Insight mobile app or Insight Cloud portal	
Multi-switch, multi-port concurrent configuration for ACLs, VLANs, QoS, etc	Apply settings and policies on multiple ports across multiple switches all at the same time using the Port Config Wizard	
Performance Specifications		
CPU	600 MHz Single Core 1GB RAM 256MB SPI FLASH	1.25 GHz Single Core 1GB RAM 256MB SPI FLASH
Packet buffer memory (Dynamically shared across only used ports)	2MB	4MB
Forwarding modes	Store-and-forward	
Bandwidth (non-blocking, full duplex)	200Gbps	360Gbps
Priority queues	8	
Priority queuing	Weighted Round Robin (WRR) and Strict Priority	
MAC Address database size (48-bit MAC addresses)	16K	
Multicast groups	512	
Number of VLANs	512	
Number of DHCP snooping bindings	8k	
Access Control Lists (ACLs)	100 shared for MAC, IP and IPv6 ACLs (ingress)	

S3600 Series
10G/Multi-Gigabit Ethernet Smart Switches

Performance Specifications	XS508TM	XS516TM
Packet forwarding rate (64 byte packet size) (Mfps or Mpps)	148.8	267.8
1G Copper standard latency (µsec) (64-byte; 1518-byte; 9216-byte frames) 64-byte	64-byte: 2.37µsec 1518-byte: 2.34µsec 9216-byte: 2.32µsec	64-byte: 2.02µsec 1518-byte: 2.04µsec 9216-byte: 2.02µsec
2.5G Copper standard latency (µsec) (64-byte; 1518-byte; 9216-byte frames) 64-byte	64-byte: 5.66µsec 1518-byte: 5.65µsec 9216-byte: 5.65µsec	64-byte: 6.20µsec 1518-byte: 6.59µsec 9216-byte: 6.23µsec
10G SFP+ Fiber latency (µsec) (64-byte; 1518-byte; 9216-byte frames)	64-byte: 0.84µsec 1518-byte: 0.82µsec 9216-byte: 0.82µsec	64-byte: 0.90µsec 1518-byte: 0.89µsec 9216-byte: 0.89µsec
Jumbo frame support	Up to 9K packet size	
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	28.63 dBA	27.35 dBA
Mean Time Between Failures (MTBF) @ 25° C	818,977.9 hours (93.5 years)	506,741.9 hours (57.8 years)
L2 Services - VLANs		
IEEE 802.1Q VLAN tagging	Yes	
MAC-based VLANs	Yes	
Protocol-based VLAN	Yes	
Auto-VoIP VLAN / Auto-Voice VLAN	Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address	
Auto-VoIP	Yes, based on protocols (SIP). Prioritizes traffic to a higher queue	
Voice VLAN	Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VoIP phone using LLDP-MED	
Auto-Video VLAN	Yes	
Auto-Camera VLAN	Yes	
Auto-WiFi VLAN	Yes	
GARP with GVRP	Yes	
Private VLAN	Yes	
L2+/Lite L3 Services - Availability		
Broadcast, multicast, unknown unicast storm control	Yes	
IEEE 802.3ad - LAGs (LACP)	Yes	
IEEE 802.3x (full duplex and flow control)	Yes	
L2+/Lite L3 Services - Availability		
IEEE 802.1D Spanning Tree Protocol	Yes	
IEEE 802.1w Rapid Spanning Tree Protocol	Yes	
IEEE 802.1s Multiple Spanning Tree Protocol	Yes	

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L2+/Lite L3 Services - Multicast Filtering	XS508TM	XS516TM
IGMP snooping (v1, v2 and v3)		Yes
MLD snooping support (v1 and v2)		Yes
IGMP snooping querier		Yes
MLD snooping querier (v1)		Yes
Multicast groups		512
Multicast VLAN Registration (MVR)		Yes
L3 Services - Routing		
DHCP client		Yes
DHCP snooping		Yes
Number of DHCP snooping bindings		256
IPv4 static routing		64
IPv6 static routing		32
VLAN routing		Yes
Host ARP table (number of entries)		1024 ARP
ICMP Router Discovery Protocol (IRDP)		Yes
Number of IP VLAN interfaces (routed VLANs)		15
DHCP Services		
DHCP client		Yes
DHCP snooping		Yes
Number of DHCP snooping bindings		8k
DHCP Server		Yes
DHCP Relay		Yes
DHCP IPv6 Server		Yes
DHCP IPv6 Relay		Yes
Link Aggregation		
IEEE 802.3ad - LAGs (LACP)		Yes
Manual Static LAG		Yes
# of LACP or Static LAGs # of members in each LAG		8 LAGs with max 8 members in each LAG
Network Monitoring and Discovery Services		
802.1ab LLDP		Yes
LLDP-MED		Yes
SNMP		Yes, v1/v2c/v3
RMON group 1, 2, 3, 9		Yes

S3600 Series
10G/Multi-Gigabit Ethernet Smart Switches

Network Security	XS508TM	XS516TM
IEEE 802.1x		Yes
Guest VLAN		Yes
RADIUS-based VLAN assignment via .1x		Yes
MAC-based .1x		Yes
RADIUS accounting		Yes
Access Control Lists (ACLs)		L2 / L3 / L4
IP-based ACLs (IPv4 and IPv6)		Yes
MAC-based ACLs		Yes
TCP/UDP-based ACLs		Yes
MAC lockdown		Yes
MAC lockdown by the number of MACs		Yes
Control MAC # Dynamic learned entries (per port)		4096
Control MAC # static entries		48
IEEE 802.1x RADIUS port access authentication/type		Yes
Port-based security by locked MAC addresses		Yes
Broadcast, multicast, unknown unicast storm control		Yes
DoS attacks prevention		Yes
Dynamic ARP inspection		Yes
Protected ports		Yes
Quality of Service		
Port-based rate limiting		Yes, ingress and egress
Port-based QoS		Yes
Support for IPv6 fields		Yes
DiffServ QoS		Yes, ingress
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 VLAN / Auto-Voice VLAN

Yes, manual or automatic assignment of VoIP phone traffic based on OUI bytes (default database and user-based OUIs) in the phone source MAC address to Voice VLAN associated with high priority QoS parameters

S3600 Series
10G/Multi-Gigabit Ethernet Smart Switches

Other Features	XS508TM	XS516TM
Loop detection & prevention		Yes
DNS Client		Yes
Option to enable/disable BPDU flooding when STP is disabled		Yes
Option to enable/disable the flooding of EAPOL when 802.1x is disabled		Yes
Management, Monitoring & Troubleshooting		
Cloud/Remote management		Yes
Insight mobile app & Insight Cloud Portal management		Yes
uPnP Discovery	Yes, activated by default	
Networking monitoring		Yes
Data/performance logs		Yes
Centralized network configuration/policies (network-centric management)		Yes
Device auto-join and configure (zero-touch provisioning)		Yes
Multi-site, multi-network single pane-of-glass view		Yes
Multi-switch, multi-port concurrent configuration		Yes
Network/global password (for all Insight Managed devices on a network)	Yes (per network/subnet via NETGEAR Insight mobile app and Insight Cloud portal)	
Password management		Yes
IP Access List		Yes
Configurable management VLAN		Yes
Admin access control via RADIUS and TACACS+		Yes
IPv6 management		Yes
SNTP client over UDP port 123		Yes
Firmware upgrade direct from Cloud (via mobile device or Insight Cloud Portal)		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		Yes
Cable test utility		Yes
Ping and tracerout client		Yes

S3600 Series
10G/Multi-Gigabit Ethernet Smart Switches

Management, Monitoring & Troubleshooting	XS508TM	XS516TM
Web browser-based graphical user interface (GUI)		Yes
HTTPS/TLS Web-based access (version)		Yes (v1.2)
HTTP firmware upload/download		Yes
File transfers (uploads, downloads)		TFTP / HTTP
Dual software (firmware) image		Yes
Memory and flash log		Yes
Syslog (Server)		Yes
Power Consumption		
Max power (worst case, all ports used, line-rate traffic) (Watts)	32.7W	64.8W
Min power (link-down standby) (Watts)	12.7W	27.2W
Heat Dissipation (BTU/hr)	Max: 111.689 BTU/hr Min: 43.358 BTU/hr	Max: 221.295 BTU/hr Min: 92.895 BTU/hr
Energy Efficient Ethernet (EEE) IEEE 802.3az		Yes (deactivated by default)
Auto power down		Yes
Fan(s) (temperature- and load-based speed control)	2	3
Physical Specifications		
Dimensions (W x D x H)	330 x 206 x 43.2 mm (13 x 8.12 x 1.7 in)	
Weight	2.2kg (4.85lb)	2.45kg (5.4lb)
Mounting options	Wall mount and rack mount option	
Environmental Specifications		
Operating		
Operating Temperature	0° to 50°C (32° to 122°F)	
Humidity	95% 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)	
Humidity (relative)	95% maximum relative humidity (RH), non-condensing	
Altitude	10,000 ft (3,000 m) maximum	
Warranty and Support		
Hardware Limited Warranty	Limited Lifetime*	
Next-Business-Day (NBD) Replacement	Limited Lifetime*	
Technical support via phone	90 days free from date of purchase*	
ProSUPPORT OnCall 24x7 Service Packs**	Category 2 PMB0312-10000S PMB0332-10000S PMB0352-10000S	Category 2 PMB0312-10000S PMB0332-10000S PMB0352-10000S
Insight	1-year Insight subscription included	

S3600 Series
10G/Multi-Gigabit Ethernet Smart Switches

Package Content	
Smart switch	✓
Power cord (localized to region of sale)	✓
Mounting kit	Wall mount and rack mount
Rubber footpads for tabletop installation	✓
Installation guide	✓
Ordering Information	
XS508TM	
XS508TM-100NAS	North America
XS508TM-100EUS	Europe, including United Kingdom
XS508TM-100AUS	Australia & New Zealand
XS508TM-100JPS	Japan
XS508TM-100KOS	Korea
XS508TM-100PES	Other APAC
XS508TM-100UKS	Hong Kong and Singapore
XS508TM-100TWS	Taiwan
XS508TM-100PRS	China
XS516TM	
XS516TM-100NAS	North America
XS516TM-100EUS	Europe, including United Kingdom
XS516TM-100AUS	Australia & New Zealand
XS516TM-100JPS	Japan
XS516TM-100KOS	Korea
XS516TM-100PES	Other APAC
XS516TM-100UKS	Hong Kong and Singapore
XS516TM-100TWS	Taiwan
XS516TM-100PRS	China

Optional Modules, Software Licenses and Accessories

AGM731F	SFP Transceiver 1000BASE-SX (Short range, multimode)
AGM732F	SFP Transceiver 1000BASE-LX (Long range, single mode)
AGM734-10000S	SFP Transceiver 1000BASE-T Copper RJ45 GBIC
AXM761	SFP+ Transceiver 10GBASE-SR (Short range, multimode)
AXM762	SFP+ Transceiver 10GBASE-LR (Long range, single mode)
AXM764	SFP+ Transceiver 10GBASE-LR Lite (Long range lite, single mode)
AXC761	SFP+ DAC CABLE (1m)
AXC763	SFP+ DAC CABLE (3m)

*This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and covers unmodified hardware, fans and internal power supplies - not software or external power supplies, and requires product registration at <https://www.netgear.com/business/registration> within 90 days of purchase; see <https://www.netgear.com/about/warranty> for details. Intended for indoor use only.

**The NETGEAR OnCall 24x7 contract provides unlimited phone, chat and email technical support for your networking product.

The use of the proper type of cable is required for optimum performance. Please consult this Knowledge Base article for more information: www.netgear.com/cables

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