NETGEAR®







Smart Switches just got more powerful and flexible

As a leading provider of network equipment for businesses, NETGEAR® understands the importance of providing great choice of PoE port counts and power budgets that can adapt to the business's needs, whether in the hospitality, catering, education or retail domains.

The GS510TLP 8-Port Gigabit Smart Switch with PoE+ and 2 SFP Ports joins the NETGEAR Standalone Smart Switches family, adding full 8 port PoE+ support for deployment of modern high-power PoE devices. Cautious spender organizations can now deploy denser PoE+ devices connected to a cost-effective switch, with a reasonable

PoE power budget of 75W. Fan-less, the GS510TLP supports perfectly silent desktop operation or rack mounting.

Organizations who buy infrastructure for the long term and want future proofing for the unforeseeable can require GS510TPP 8-Port Gigabit Smart Switch with PoE+ and 2 SFP Ports: 190W PoE budget offers more headroom. Temperature- and load-based fan-speed control combines accurate monitoring with minimized system acoustic noise: unlike other high power PoE switches on the market, the GS510TPP supports quiet desktop operation or rack mounting with a maximum of 32dB at full power and 25°C (77°F) ambient.

The GS418TPP Easy Mount 16-Port Gigabit Smart Switch with PoE+ and 2 SFP Ports is future-proof with 240W of PoE budget and ideal for "Virtually Anywhere™" deployments. Slim design (3.94 inches, 10 cm deep) and mounting accessories allow for access point, IP camera or VoIP endpoint placement optimization and cabling efficiency even outside the rack. The GS418TPP supports Easy Mount quiet operation or rack mounting with a maximum of 33dB at full power and 25°C (77°F) ambient.

Highlights

The NETGEAR PoE+ Gigabit Smart
Switches provides a great value, with
configurable L2 network features like
VLANs and PoE operation scheduling,
allowing SMB customers to deploy PoEbased VoIP phones and IP surveillance.
Advanced features such as IPv4/IPv6
Layer 3 static routing, DiffServ QoS, LACP
link aggregation and Spanning Tree will
satisfy even the most advanced small
business networks.

Key features include:

- Layer 3 static routing with 32 routes (IPv4 and IPv6) for interVLAN local routing
- 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 per port PoE controls for remote power management of PoE connected devices including operation scheduling (e.g. Wireless APs, IP security cameras, LED lighting, secure access door locks, IoT devices...)
- Advanced QoS (Quality of Service) for traffic prioritization including portbased, 802.1p and L2/L3/L4 DSCPbased

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Key features include (con't):

- Auto "denial-of-service" (DoS) prevention
- IGMP Snooping and Querier for multicast optimization
- Rate limiting and priority queuing for better bandwidth allocation
- Port mirroring for network monitoring
- Energy Efficient Ethernet (IEEE 802.3az) for maximum power savings
- Cable test to troubleshoot connection issues
- SNMP v1, v2c, v3 and RMON remote monitoring

Fully-integrated Cloud-manageable Devices (GS510TPP only)

 Remote/Cloud management capability with NETGEAR Insight. Instantly activate NETGEAR Insight Cloud management from the web GUI, for simpler configuration and deployment from anywhere using the NETGEAR Insight app on mobile devices or the Insight Cloud portal through a web browser

Build a future-proof network with NETGEAR:

- Solid performance with 20Gbps (GS510TLP, GS510TPP) and 36Gbps (GS418TPP) non-blocking architecture, 16K MAC addresses, 256 VLANs, 100 shared ACLs and 512 Multicast groups
- Comprehensive IPv6 supporting management, QoS, ACL and routing, ensuring investment protection and a smooth migration to IPv6-based network
- PoE+ support on all models and on all ports, providing flexibility in the future to add more power-hungry devices such as video phone, PTZ camera and 11ac Wireless APs into the network
- 2 dedicated SFPs, not only providing fiber uplinks, but also uplink redundancy and failover, improving reliability and availability for the network

Smart IT, not Big IT

- Easy-to-use Web browser-based management GUI with English, German and Japanese support makes setup and management simple
- Standards-based technology ensures interoperability with any standardsbased devices in the existing network
- Dual firmware images improve reliability and uptime to your network
- Worry-free with NETGEAR Limited Lifetime* hardware warranty
- Minimal down-time with NETGEAR Limited Lifetime* Next-Business-Day Replacement Warranty
- Get deployment assistance with 90-days Free 24x7 Advanced Technical Phone Support**
- Limited Lifetime* Online Chat Technical Support







Why NETGEAR PoE+ Smart Switches?

The new standalone GS510TLP, GS510TPP and GS418TPP switches are designed with varying PoE port counts and PoE power budgets to meet the current and future needs of wireless converged networks. Within small and medium-sized organizations, there is growing adoption of PoE devices such as VoIP phones, IP security cameras, wireless access points, proximity sensors, LED lighting, door locks, and other IoT devices that require network switches capable of supporting dense PoE installations. Wireless access points and pan-tilt-zoom HD cameras using Wave 2 802.11ac WiFi also require PoE+ power (802.3at), increasing the power demands on PoE switches.

"PoE devices are putting a strain on switching power demands." As a leading provider of network equipment for SMBs, NETGEAR understands the importance of providing great choice of PoE port counts and PoE power budgets that can adapt to the business's needs, whether in the hospitality, catering, education or retail domains.

These switches provide a great value, with configurable L2 network features like VLANs and PoE operation scheduling. Advanced features such as IPv4/IPv6 Layer 3 static routing, DiffServ QoS, LACP link aggregation and Spanning Tree will satisfy even the most advanced small business networks.



Hardware at a Glance

			REAR	SIDE			
Model Name	Form-Factor	10/100/ 1000BASE-T RJ45 Ports	100/1000X Fiber SFP Ports	PoE+ 802.3at Ports (Budget)	Power Supply	Power Supply	Fans
GS510TLP	Desktop (Rackmount kit)	8	2	8 PoE+ (75W)	-	1 internal PSU, fixed	Fanless
GS510TPP	Desktop (Rackmount kit)	8	2	8 PoE+ (190W)	-	1 internal PSU, fixed	1 internal fan, fixed
GS418TPP	Easy Mount (Rackmount kit)	16	2	16 PoE+ (240W)	1 internal PSU, fixed		1 internal fan, fixed



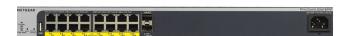
GS510TLP: 8-port Gigabit PoE+ Smart Switch

- 8 x 1000BASE-T PoE+ Copper ports
- 2 x 1000BASE-X Dedicated Fiber SFP ports
- 75W PoE budget (fan-less, 0dB)



GS510TPP: 8-port Gigabit PoE+ Smart Switch

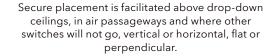
- 8 x 1000BASE-T PoE+ Copper ports
- 2 x 1000BASE-X Dedicated Fiber SFP ports
- 190W PoE budget (max 32dB @ 25°C / 77°F ambient)



GS418TPP: 16-port Gigabit PoE+ Easy-Mount Smart Switch

- 16 x 1000BASE-T PoE+ Copper ports
- 2 x 1000BASE-X Dedicated Fiber SFP ports
- 240W PoE budget (max 33dB @ 25°C / 77°F ambient)











Mount for attachment to a wall, or rectangular pole





Software at a Glance

	LAYER 2+ / LAYER 3 LITE FEATURES								
Model Name	Management	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	Auto- VoIP, Auto- Video	IEEE (802.3az) Energy Efficient Ethernet	VLANs	Convergence	IPv4 & IPv6 Static Routing	Cloud Management Capable
GS510TLP	Web Browser- based GUI (HTTP/HTTPS), RMON, SNMP	L2, L3, L4 Ingress	IGMP and MLD Snooping	Yes	Yes	Static, Dynamic, Voice, MAC, Protocol-based, and Private	LLDP-MED, RADIUS, 802.1X	Yes	No
GS510TPP	Web Browser- based GUI (HTTP/HTTPS), RMON, SNMP Insight Remote/Cloud management	L2, L3, L4 Ingress	IGMP and MLD Snooping	Yes	Yes	Static, Dynamic, Voice, MAC, Protocol-based, and Private	LLDP-MED, RADIUS, 802.1X	Yes	Yes
GS418TPP	Web Browser- based GUI (HTTP/HTTPS), RMON, SNMP	L2, L3, L4 Ingress	IGMP and MLD Snooping	Yes	Yes	Static, Dynamic, Voice, MAC, Protocol-based, and Private	LLDP-MED, RADIUS, 802.1X	Yes	No

Performance at a Glance

Model Name	Packet Buffer	CPU	ACLs	MAC Address Table ARP/NDP Table VLANs	Fabric	Latency (64-byte Packet)	Static Routes (IPv4 & IPv6)	Multicast IGMP Groups
GS510TLP	1.5MB	400 MHz Cortex-A9 Single Core, 512MB RAM 16MB SPI + 256MB NAND FLASH	100 shared	16K MAC 479 ARP/223 NDP 256 VLANs	20Gbps line-rate	1G Copper: <3.313µs 1G Fiber: <2.402µs	IPv4: 32 IPv6: 32	512
GS510TPP	1.5MB	400 MHz Cortex-A9 Single Core, 512MB RAM 16MB SPI + 256MB NAND FLASH	100 shared	16K MAC 479 ARP/223 NDP 256 VLANs	20Gbps line-rate	1G Copper: <3.313µs 1G Fiber: <2.402µs	IPv4: 32 IPv6: 32	512
GS418TPP	1.5MB	400 MHz Cortex-A9 Single Core, 512MB RAM 16MB SPI + 256MB NAND FLASH	100 shared	16K MAC 479 ARP/223 NDP 256 VLANs	36Gbps line-rate	1G Copper: <3.195µs 1G Fiber: <2.395µs	IPv4: 32 IPv6: 32	512



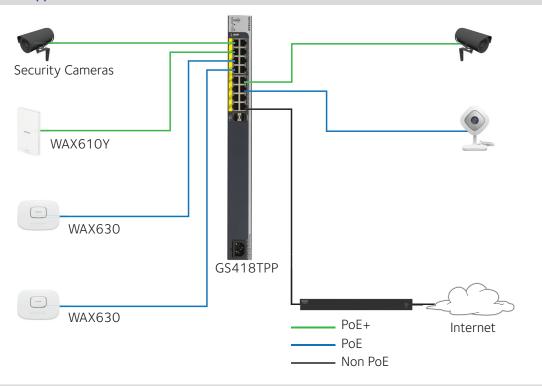
Data Sheet | **GS510TLP, GS510TPP, GS418TPP**Gigabit PoE+ Smart Switches

Features and Benefits: Hardware Features	
1000BASE-T Copper Ethernet PoE+ connections	Support high-density VoIP, Surveillance and Wi-Fi AP deployments, scalable for future growth. Never face the risk of running out of PoE ports.
1000BASE-X Fiber SFP ports	Two dedicated Gigabit SFP ports for aggregation to the network core. Support for Fiber and Copper modules.
Low Acoustics	Fan-less design, or temperature- and load-based fan-speed control allow for quiet operation in both desktop or rackmount configuration.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for ongoing operation cost savings.
Software Features	
Fully-integrated Cloud-manageable Devices (GS510TPP only)	Require 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 browserbased user interface and go.
Comprehensive IPv6 Support for Management, ACL and QoS	Build current network with future in mind. Ensure investment protection and a smooth migration to an IPv6-based network without switch replacement.
IPv4 & IPv6 Static Routing	A simple way to provide segmentation of the network with internal routing through the switch - reserving the router for external traffic routing only, making the entire network more efficient.
Robust security features: 802.1x authentication (EAP) Port-based security by locked MAC ACL filtering to permit or deny traffic based on MAC and IP addresses	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: • Port-based or 802.1p-based prioritization • Layer 3-based (DSCP) prioritization • Port-based egress 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, and Auto-Video VLAN	Automatic Voice over IP prioritization (Auto-VoIP) simplifies most complex multi-vendor IP telephone deployments either based on protocols (SIP, H.323 and SCCP) or 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. Similarly, Auto-Video VLAN enables IGMP snooping to minimize broadcast streams.
IGMP Snooping and MLD 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 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.
Dual Firmware Images and Configuration Files	Dual firmware images and dual configuration files for transparent firmware updates/configuration changes with minimum service interruption.
Multiple Language Local GUI	Product documentation and local-only web user interfaces are translated, giving you the ability to select your preferred language. English, German and Japanese are currently supported in local-only Web GUI.

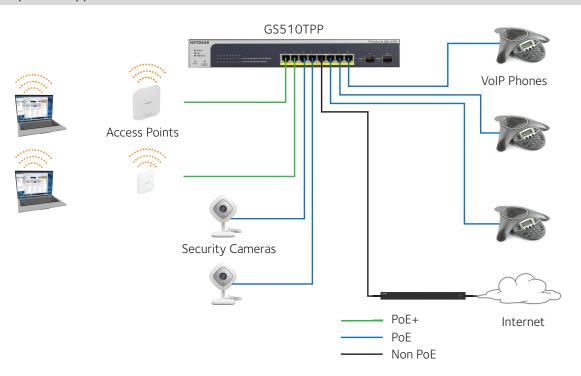


Example Application

Easy-Mount PoE+ Switch Application



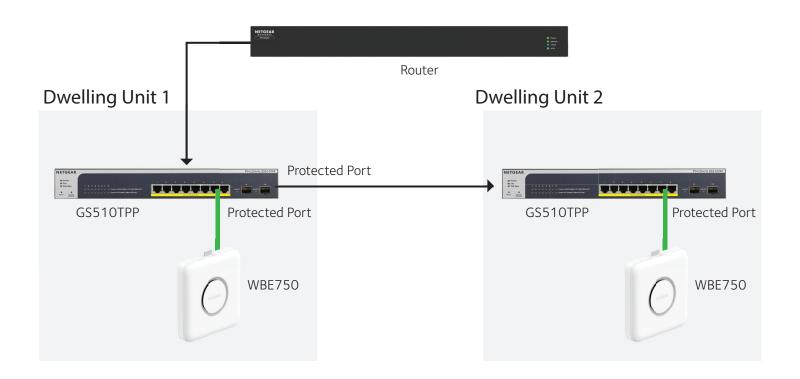
PoE+ Desktop Switch Application





Example Application

Multi-Unit, Multi-Switch Dwelling Application







Technical Specifications	GS510TLP	GS510TPP	GS418TPP		
10M/100M/1G RJ-45 copper ports	8	8	16		
PoE / PoE+ ports	8 PoE+ (75W PoE budget)	8 PoE+ (190W PoE budget)	16 PoE+ (240W PoE budget)		
100M/1G SFP (fiber) ports	2 (dedicated)	2 (dedicated)	2 (dedicated)		
USB port (for config file upload/backup & firmware updates)	No	No	Yes		
Performance Specification					
CPU	400 MHz Cortex-A9 Sir	ngle Core, 512MB RAM 16MB SP	+ 256MB NAND FLASH		
Packet buffer memory (Dynamically shared across only used ports)		1.5 MB			
Forwarding modes		Store-and-forward			
Bandwidth		20Gbps			
Priority queues		8			
Priority queuing	Weigh	ted Round Robin (WRR) and Stric	t Priority		
MAC Address database size (48-bit MAC addresses)		16K			
Multicast Groups		512			
Number of IPv4 static routes		32			
Number of IPv6 static routes		32			
Number of ARP/NDP cache entries		256			
Number of VLANs		479 ARP / 223 NDP			
Number of DHCP snooping bindings		8K			
Access Control Lists (ACLs)	10	00 shared for MAC, IP and IPv6 A	CLs		
Packet forwarding rate (64-byte packet size) (Mfps or Mpps)	14.88	14.88	26.78		
Jumbo frame support		Up to 9K packet size			
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	0 dBA	32 dBA	33 dBA		
Mean Time Between Failures (MTBF) @ 25° C	913,368 hours	1,509,979 hours	1,364,013 hours		
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	8.725µs; 8.119µs; 8.119µs	8.725μs ; 7.933μs ; 8.119μs	7.457µs ; 7.494µs ; 7.416µ		
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.313µs; 3.293µs; 3.293µs	3.313µs; 3.322µs; 3.293µs	3.195µs ; 3.198µs ; 3.176µ		
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.402µs ; 2.372µs ; 2.372µs	2.402µs ; 2.405µs ; 2.372µs	2.395µs ; 2.402µs ; 2.376µ		
L2 Services - VLANS					
Number of VLAN Supported		256			
IEEE 802.1Q VLAN tagging		Yes			
IP-based VLANs		Yes			
MAC-based VLANs		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, H.323 and SCCP). Prioritzes traffic to a higher queue				



Notice VLAN Preservices - Availability Preservices - Ava				
yolice VLAN Auto-Vidao VLAN Yes Phorate VLAN Yes L2 Services - Availability Broadcast, multicast, unknown unicast storm control EEE 802.2 Social Case, multicast, unknown unicast storm control EEE 802.2 Social Case, multicast, unknown unicast storm control EEE 802.1 Sognaming Tree Protocol EEE 802.1 Sognaming Tree Protocol EEE 802.1 Sognaming Tree Protocol EEE 802.1 Southiple Spanning Tree Protocol EEE 802.1 Southiple Spanning Tree Protocol EEE 802.1 Southiple Spanning Tree Protocol EEE 802.1 South Case	L2 Services - VLANS	GS510TLP	GS510TPP	GS418TPP
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Broadcast, multicast, unknown unicast storm control EEE 802.3ad - LAGs (LACP) Fes EEE 802.3ad - LAGs (LACP) Fes EEE 802.31 (full duplex and flow control) Fes EEE 802.1 w Rapid Spanning Tree Protocol Fes Layer 2 DHCP Relay F	Private VLAN		Yes	
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IEEE 802.1x (full duplex and flow control) IEEE 802.1D Spanning Tree Protocol IEEE 802.1x Rapid Spanning Tree Protocol IEEE 802.1x Multiple Spanning Tree	Broadcast, multicast, unknown unicast storm control		Yes	
REER 802.1D Spanning Tree Protocol	IEEE 802.3ad - LAGs (LACP)		Yes	
IEEE 802.1 w Rapid Spanning Tree Protocol IEEE 802.1 s Multiple Sp	IEEE 802.3x (full duplex and flow control)		Yes	
IEEE 802.1s Multiple Spanning Tree Protocol Layer 2 DHCP Relay Yes MLD snooping (v1, v2 and v3) Yes MLD snooping support (v1 and v2) Yes MLD snooping gueries Yes Multicast VLAN Registration (MVR) Yes Block unknown multicast Layer 2 DHCP HCP Client Yes Layer 2 DHCP HCP Client Yes Layer 2 DHCP HCP Static routes 32 VLAN routing Yes Host ARP table (number of entries) VES VLAN router Discovery Protocol (IRDP) Number of IP VLAN interfaces (routed VLANs) Link Aggregation HEEE 802.1s AGS with max 8 members in each LAG Nembers in each LAG Newtwork Monitoring and Discovery Services 802.1ab LLDP Yes SNMP	IEEE 802.1D Spanning Tree Protocol		Yes	
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Host ARP table (number of entries) A79 ARP / 223 NDP ICMP Router Discovery Protocol (IRDP) Yes Number of IP VLAN interfaces (routed VLANs) Link Aggregation IEEE 802.3ad - LAGs (LACP) Yes Manual Static LAG Yes # of Static or LACP LAGs # of Static or LACP LAGs # of members in each LAG **Remain and Discovery Services 802.1ab LLDP Yes SNMP Yes Yes Yes Yes Yes Yes Yes Ye	IPv6 static routes		32	
ICMP Router Discovery Protocol (IRDP) Number of IP VLAN interfaces (routed VLANs) Link Aggregation IEEE 802.3ad - LAGs (LACP) Manual Static LAG # of Static or LACP LAGs # of members in each LAG Network Monitoring and Discovery Services 802.1ab LLDP Yes SNMP Yes Yes Yes Yes Yes Yes	VLAN routing		Yes	
Number of IP VLAN interfaces (routed VLANs) Link Aggregation IEEE 802.3ad - LAGs (LACP) Manual Static LAG # of Static or LACP LAGs # of members in each LAG # of members in each LAG Network Monitoring and Discovery Services 802.1ab LLDP Yes SNMP 15 Yes 5 LAGs with max 8 members in each LAG 8 members in each LAG 8 members in each LAG 9 LAGs with max 8 members in each LAG 8 members in each LAG 9 LAGs with max 9 LAGs with max 8 members in each LAG 9 tags with max 9 LAGs with max 9 tags with max 9 t	Host ARP table (number of entries)		479 ARP / 223 NDP	
Link Aggregation IEEE 802.3ad - LAGs (LACP) Manual Static LAG # of Static or LACP LAGs # of Static or LACP LAGs # of members in each LAG Network Monitoring and Discovery Services 802.1ab LLDP Yes Yes 8 members in each LAG 8 members in each LAG Yes 8 members in each LAG 8 members in each LAG 8 members in each LAG Yes 8 members in each LAG 8 members in each LAG 8 members in each LAG Network Monitoring and Discovery Services 802.1ab LLDP Yes SNMP	ICMP Router Discovery Protocol (IRDP)		Yes	
IEEE 802.3ad - LAGs (LACP) Manual Static LAG # of Static or LACP LAGs # of Static or LACP LAGs # of members in each LAG **Remark** **R	Number of IP VLAN interfaces (routed VLANs)		15	
Manual Static LAG # of Static or LACP LAGs # of Static or LACP LAGs # of members in each LAG # of members in each LAG Network Monitoring and Discovery Services 802.1ab LLDP Yes SNMP Yes	Link Aggregation			
# of Static or LACP LAGs # of Static or LACP LAGs # of members in each LAG # of members in each LAG Network Monitoring and Discovery Services 802.1ab LLDP Yes SNMP v1, v2c, v3	IEEE 802.3ad - LAGs (LACP)		Yes	
# of members in each LAG 8 members in each LAG 8 members in each LAG 8 members in each LAG Network Monitoring and Discovery Services 802.1ab LLDP Yes SNMP v1, v2c, v3	Manual Static LAG		Yes	
802.1ab LLDP Yes SNMP v1, v2c, v3	# of Static or LACP LAGs # of members in each LAG			9 LAGs with max 8 members in each LA
SNMP v1, v2c, v3	Network Monitoring and Discovery Services			
	802.1ab LLDP		Yes	
RMON group 1,2,3,9 Yes	SNMP		v1, v2c, v3	
	RMON group 1,2,3,9		Yes	



Network Security	GS510TLP	GS510TPP	GS418TPP
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 ingress	
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	
Control MAC # Dynamic learned entries		4096	
Control MAC # static entries		96	
IEEE 802.1x RADIUS port access authentication		Yes	
Port-based security by locked MAC addresses		Yes	
Dynamic ARP inspection		Yes	
Broadcast, multicast, unknown unicast storm control		Yes	
DoS attacks prevention		Yes	
Quality of Service			
Port-based rate limiting		Yes 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 IPv6 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, based on	OUI bytes (default database and u in the phone source MAC addres	
Auto-VoIP	Yes, based on protoco	ls (SIP, H.323 and SCCP). Prioritzes	traffic to a higher queue
Voice VLAN	Yes, based on either VLAN	ID or 802.1p priority, packets are VoIP phone using LLDP-MED	passed onto the connecting
Auto-Video VLAN		Yes	





IEEE Network Protocols	GS510TLP	GS510TPP	GS418TPP
• IEEE 802.3 Ethernet • IEEE 802.3u 100BASE-T • IEEE 802.3ab 1000BASE-T • IEEE 802.3af PoE • IEEE 802.3at PoE+ • IEEE 802.3az Energy Efficient Ethernet (EEE) • IEEE 802.3ad Trunking (LACP) • IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX	• IEEE 802.3x Full-Duplex Flor • IEEE 802.1Q VLAN Tagging • IEEE 802.1AB LLDP with All • IEEE 802.1p Class of Servication • IEEE 802.1D Spanning Tre • IEEE 802.1s Multiple Spanning • IEEE 802.1x Rapid Spanning • IEEE 802.1x RADIUS Netwo	g NSI/TIA-1057 (LLDP-MED) ce e (STP) ning Tree (MSTP) ng Tree (RSTP)	
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		4	
Web browser-based graphical user interface (GUI)	Yes (E	nglish, German and Japanese su _l	pported)
Dual software (firmware) image		Yes	
Dual configuration file		Yes	
Cable test utility		Yes	
SSL/HTTPS Web-based access (version)		Yes (v3)	
TLS Web-based access (version)		Yes (v1.0)	
File transfers (uploads, downloads)		TFTP/HTTP	
HTTP upload/download (firmware)		Yes	
Syslog (RFC 3164)		Yes	
USB port for firmware and config upload /download	No	No	Yes
LEDs			
Per port		Speed, Link, Activity	
Per device		Power and Fan	
Physical Specifications			
Dimensions (W x D x H)	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	440 x 100 x 43 mm (17.3 x 3.9 x 1.7 in)





Power Consumption	GS510TLP	GS510TPP	GS418TPP	
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	101 W	225 W	282.3 W	
Max power without PoE (worst case, all ports used, line-rate traffic) (Watts)	10.5 W	12.5 W	17.8 W	
Heat Dissipation (worst case, all ports used, full PoE, line-rate traffic) (BTU/hr)	344.81 BTU/hr	768.15 BTU/hr	963.77 BTU/hr	
Energy Efficient Ethernet (EEE) IEEE 802.3az		Yes (deactivated by default	·)	
Fan	Fan-less	1	1	
Environmental Specifications				
Operating				
Operating Temperature		0° to 50°C (32° to 122°F)		
Humidity	90% ma	ximum relative humidity (RH), non	n-condensing	
Altitude		10,000ft (3,000m) maximum		
Storage				
Storage Temperature		-20° to 70°C (- 4° to 158°F)		
Humidity (relative)	95% :	maximum relative humidity, non-co	ondensing	
Altitude	10,000ft (3,000m) maximum			
Electromagnetic Emissions and Immunity Certifications				
Certifications	CE: EN 55032:2012+AC:2013/CISPR 32:2012, EN 61000-3-2:2014,			
Safety Certifications	90% ma	ximum relative humidity (RH), non	n-condensing	
Certifications	CB report / certificate IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013 UL listed (UL 1950)/cUL IEC 950/EN 60950 CE LVD: EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 RCM (AS/NZS) 60950.1:2015 CCC (China Compulsory Certificate): GB4943.1-2011; YD/T993-1998; GB/T9254 (Class A) BSMI: CNS 14336-1			
Warranty and Support				
Hardware Limited Warranty	Limited Lifetime* (excluding mounting hardware, belts or straps)			
24x7 Online Chat Technical Support		Limited Lifetime*		
Next-Business-Day (NBD) Replacement		Limited Lifetime*	_	
ProSUPPORT OnCall 24x7, Service Packs**	Category S2: PMB0S12-10000S PMB0S32-10000S	Category 1: PMB0311 (1 yr) PMB0331 (3 yrs)	Category 1: PMB0311 (1 yr) PMB0331 (3 yrs)	



Data Sheet | **GS510TLP**, **GS510TPP**, **GS418TPP**Gigabit PoE+ Smart Switches

Package Contents	
All Models	NETGEAR Smart Switch Power cord (localized to country of sale) Rackmount kit Rubber footpads for tabletop installation Installation guide
Easy-Mount additional options (GS418TPP)	Mount for attachment to a wall, or rectangular pole Rubber belts Velcro straps Power cord locker
Ordering Information	
GS510TLP-100NES	North America, Latin America and Europe
GS510TLP-100AJS	Asia Pacific and Australia
GS510TLP-100PRS	China
GS510TLP-100INS	India
GS510TPP-100NES	North America, Latin America and Europe
GS510TPP-100AJS	Asia Pacific and Australia
GS510TPP-100PRS	China
GS510TPP-100INS	India
GS418TPP-100NES	North America, Latin America and Europe
GS418TPP-100AJS	Asia Pacific and Australia
GS418TPP-100PRS	China
GS418TPP-100INS	India
Optional Modules 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

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D-GS510TLP/GS510TPP/GS418TPP-20May24

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.

 $[\]hbox{``The NETGEAR OnCall 24x7 contract provides unlimited phone, chat and email technical support for your networking product.}\\$

[†] NETGEAR #1 in US Market Share according to NPD data for Unmanaged and Smart Switches, September 2019. NETGEAR #1 in Europe Market Share according to Context data for Unmanaged and Smart Switches, September 2019.