



Smart Managed Switches just got more powerful and flexible

As a leading provider of network equipment for SMBs, 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 Managed Switch with PoE+ and 2 SFP Ports joins the NETGEAR Standalone Smart Managed 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 Managed 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 Managed 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 ProSAFE PoE+ Gigabit Smart Managed Switches provides a great value, with configurable L2 network features like VLANs and PoE operation scheduling, allowing SMB customers to deploy PoE-based 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 port-based, 802.1p and L2/L3/L4 DSCP-based
- 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

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 makes setup and management simple
- Standards-based technology ensures interoperability with any standards-based devices in the existing network
- Dual firmware images improve reliability and uptime to your network
- Worry-free with NETGEAR ProSAFE LIFETIME Hardware Warranty*
- Minimal down-time with NETGEAR ProSAFE LIFETIME Next-Business-Day Replacement Warranty
- Get deployment assistance with 90-days Free 24x7 Advanced Technical Phone Support**
- LIFETIME Online Chat Technical Support



Hardware at a Glance

	FRONT					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	Fan-less
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

Software at a Glance

LAYER 2+ / LAYER 3 LITE FEATURES							
Management	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast filtering	Auto-VoIP, Auto-Video	IEEE (802.3az) Energy Efficient Ethernet	VLANs	Conver- gence	IPv4 & IPv6 Static Routing
Web Browser-based GUI (HTTP/HTTPS), PC-Based Smart Control Center Utility (SCC) 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

Performance at a Glance

Model Name	Packet buffer	CPU	ACLs	MAC Address Table RP/NDP Table VLANs	Fabric	Latency (Max Connection Speed)	Static Routes (IPv4 & IPv6)	Multicast IGMP Group
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

Ordering Information

Model Name	Americas	Europe	Asia Pacific	India	China
GS510TLP	GS510TLP-100NAS	GS510TLP-100EUS	GS510TLP-100AJS	GS510TLP-100INS	GS510TLP-100PRS
GS510TPP	GS510TPP-100NAS	GS510TPP-100EUS	GS510TPP-100AJS	GS510TPP-100INS	GS510TPP-100PRS
GS418TPP	GS418TPP-100NAS	GS418TPP-100EUS	GS418TPP-100AJS	GS418TPP-100INS	GS418TPP-100PRS

* 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.

† NETGEAR #1 in Fixed Web(Smart)-Managed Worldwide Market Share according to IHS Infonetics Ethernet Switches Market Share and Forecast, 1Q17 Edition, Dec 2016.

NETGEAR, the NETGEAR Logo, ProSUPPORT, ProSAFE and Virtually Anywhere are trademarks of NETGEAR, Inc. in the United States and/or other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Information is subject to change without notice. © 2017 NETGEAR, Inc. All rights reserved.