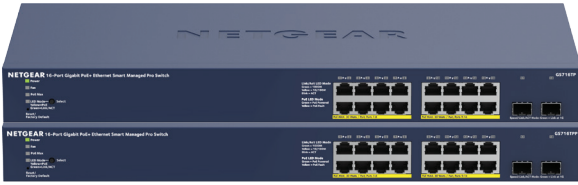# NETGEAR 16-Port Gigabit Smart PoE+ Switch with 2 SFP Ports and Cloud management

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 to keep up with the growth of virtualization, cloud-based services and applications like VoIP, video streaming and IP surveillance, whether in the hospitality, catering, education or retail domains.

The GS716TP and GS716TPP 16-Port Gigabit Switch with PoE+ and 2 SFP Ports join the NETGEAR Standalone Smart Switches family, adding full 16 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 180W (GS716TP) or 300W (GS716TPP).

NETGEAR Smart Switches offer powerful Layer 2 features, great PoE functionality, and enhanced performance and usability. These switches are the ideal solution even for the most advanced small and medium organizations looking for the best combination of features, performance, and value: they are purposely designed for converged networks where voice, video, data are all carried on a single network platform. Temperature- and load-based fan-speed control combines accurate monitoring with minimized system acoustic noise: the GS716TP and GS716TPP support quiet rack

mounting operation with a maximum of 27.3dB (GS716TP) and 28.2 dB (GS716TPP) even at full power and 25°C (77°F) ambient.

To empower the PoE applications, NETGEAR Insight Remote/Cloud Management is added to these two new switch models as an optional management mode. By activating the NETGEAR Insight Cloud management, the users will enable management features 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

More Powerful Switch for High Power Devices

- 16 x PoE+ Gigabit ports with 180W PoE budget (GS716TP) or 300W PoE budget (GS716TPP)
- 2 dedicated Gigabit SFP fiber uplink ports

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

- Non-blocking switching with 36Gbps bandwidth
- Flexible rack-mounting option

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 per port PoE controls for remote power management of PoE connected devices including operation scheduling

- 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
- 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 devices

Remote/Cloud Management capability with NETGEAR Insight. Instantly activate NETGEAR Insight Cloud management from the web GUI, given they subscribe to Basic (first 2 devices free), Premium or Insight Pro.

Small IT, not Big IT

- Easy to manage via web-based Management interface or Smart Control Center on Windows PC for multi-switch deployment
- NETGEAR Switch Discovery Tool (NSDT) to discover, register and access to 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	10/100/1000BASE-T RJ-45 Copper Ports	1G SFP Uplink	PoE+ 802.3at Ports (Budget)	Power Supply (PoE Budget)	Fans
GS716TP	Rackmount	16	2	16 (180W)	1 internal PSU, fixed	1 internal fans, fixed
GS716TPP	Rackmount	16	2	16 (300W)	1 internal PSU, fixed	2 internal fans, fixed

Software at a Glance

Management	PoE Control Features	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), PC-Based Smart Control Center Utility (SCC), RMON, SNMP, NETGEAR Insight Cloud Management via mobile App and Insight Portal	PoE on/off, Dynamic PoE budget allocation, PoE power priority setting, PoE Power Usage Metering, PoE scheduling	L2, L3, L4, ingress	IGMP Snooping, Querier	Static, Dynamic, VoIP, Voice	Yes	LLDP-MED, RADIUS, 802.1X	LACP and Manual Static LAGs (up to 8 LAGs with max 8 members)

Performance at a Glance

Model Name	Packet buffer	CPU	ACLs	MAC Address Table ARP Table VLANs	Fabric	Latency (64-Byte Packet)	Multicast IGMP Group
GS716TP	1.5 MB	700MHz single core 128MB RAM 32MB SPI FLASH	100 shared (ingress)	16K Max MAC 64 VLANs	36 Gbps line-rate	1G Copper: <3.789 us 1G Fiber: < 3.304 us	256
GS716TPP							

Ordering Information

Model Name	Americas	Europe	Asia Pacific	India	China	
GS716TP	GS716TP-100NAS	GS716TP-100EUS	GS716TP-100AJS	-	-	
GS716TPP	GS716TPP-100NAS	GS716TPP-100EUS	GS716TPP-100AJS	-	-	