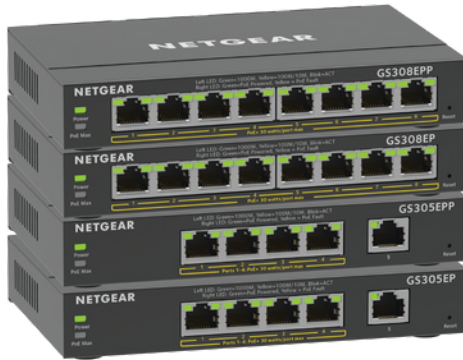




Control and Configure Beyond Plug-and-Play

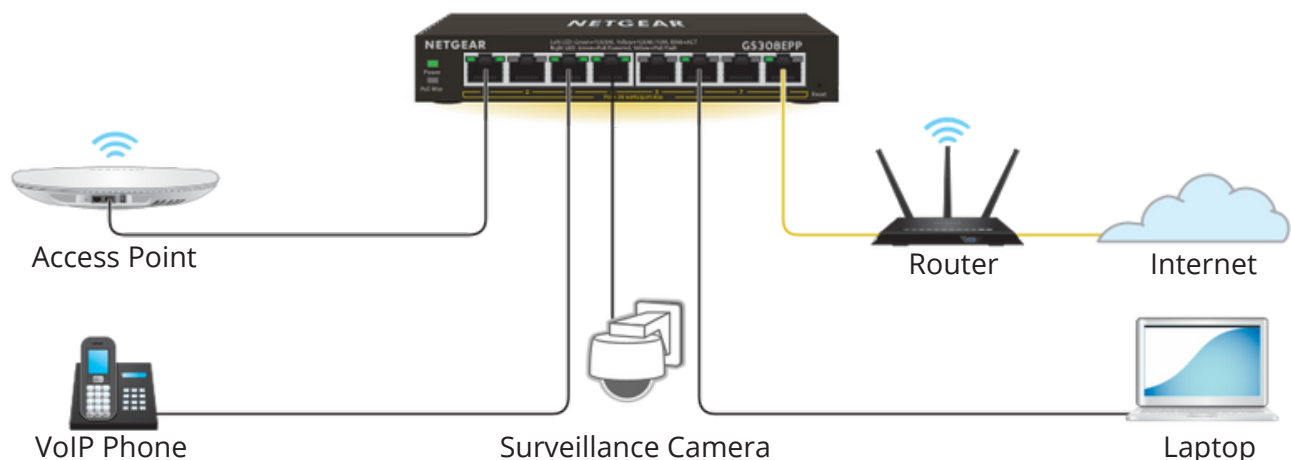


NETGEAR Plus Switches with PoE meets business networks growing need by providing fundamental network features such as simplified VLANs, QoS set-up and IGMP Snooping that will help optimize the performance of business networks. Plus Switches are the perfect upgrade from the plug-and-play unmanaged switch, delivering essential networking features at a very affordable price. These models support Power-Over-Ethernet (PoE) and can power devices such as VOIP phones, surveillance IP cameras, wireless access points and many other applications. These new PoE+ Gigabit Ethernet Plus switches models include uninterruptible PoE to help optimize the performance and troubleshooting of business networks. The new and improved business-friendly GUI allows easy management and simple configuration. With the growing deployment of applications and an all-in-one solution, providing management and power to these applications would be ideal.

Highlights

- Enable network configuration and management at the price point of unmanaged switches
- Simple, yet useful network set-up on top of plug-and-play connectivity
- Business-friendly and easy-to-use web browser-based management GUI
- VLAN support for traffic segmentation
- Quality of Service (QoS) for traffic prioritization
- Auto "denial-of-service" (DoS) prevention
- Troubleshoot connection issues via cable test
- Loop prevention¹, loop detection², and broadcast storm controls
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Advanced features such as per port PoE controls
- Uninterrupted PoE keeps PoE power on even when the switch is updating firmware or performing software reboot.
- 802.3at standard offering 30W/port
- Fanless and versatile mounting option (desktop and wall-mountable)

Small Office/Home Office Network Diagram



¹ Applies to GS316EP, GS316EPP

² Applies to GS305EP, GS305EPP, GS308EP, GS308EPP

Technical Specifications

Features	10/100/1000 RJ45 Copper Ports	GS305EP	GS305EPP	GS308EP	GS308EPP	GS316EP	GS316EPP
(Auto Uplink) Enclosure Connector Type	PoE	5	5	8	8	16	16
# of PoE ports	# PoE+ 802.3at Ports	Metal	Metal	Metal	Metal	Metal	Metal
ports Total PoE/PoE+ Budget	Advanced PoE	Metal	Metal	Metal	Metal	Metal	Metal
Controls							
PoE Scheduling		4	4	8	8	15	15
Uninterrupted PoE	Performance	4	4	8	8	15	15
Specification		0	0	0	0	1	1
Forwarding modes		63W	120W	62W	123W	180W	231W
Bandwidth Max MAC entries		Yes	Yes	Yes	Yes	Yes	Yes
Buffer Size		No	No	No	No	Yes	Yes
Energy Efficient Ethernet (IEEE 802.3az)		Yes	Yes	Yes	Yes	Yes	Yes
compliant Priority queuing Jumbo frame support	Acoustic noise level @ 25° C (dBA)	Store-and-for ward					
(ANSI-S10.12) Mean Time Between Failures (MTBF) @ 25° C	L2 Services - VLANs	10Gbps	10Gbps	16Gbps	16Gbps	32Gbps	32Gbps
(# Supported) IEEE 802.1Q VLAN Tagging	Port-based VLANs	4K	4K	4K	4K	4K	4K
L2 Services - Availability	Link Aggregation/Port Trunking	192KB	192KB	192KB	192KB	192KB	192KB
Number of Static Manual LAGs and # of members	L2 Services	Yes	Yes	Yes	Yes	Yes	Yes
- Multicast Filtering	IGMP snooping (v1, v2, and v3)	WRR	WRR	WRR	WRR	WRR	WRR
Block unknown multicast	Supported	9,216 bytes	9,216 bytes	9,216 bytes	9,216 bytes	10,000 bytes	10,000 bytes
Multicast groups	L3 Services - DHCP	0	0	0	0	0	0
client	Quality of Service	1,164,104 hrs	853,770 hrs	859,126 hrs	842,428 hrs	784,742 hrs	570,435 hrs
Rate Limiting	DSCP						
IEEE 802.1p COS	Port-based VLAN	64	64	64	64	64	64
TOS	WRR	Yes	Yes	Yes	Yes	Yes	Yes
(Weighted Round Robin)		Yes	Yes	Yes	Yes	Yes	Yes
Strict Priority queue technology		Yes	Yes	Yes	Yes	Yes	Yes
		Ye	Yes	Yes	Yes	Yes	Yes
		s	2/4	2/4	2/4	8/8	8/8
		2/					
		Yes	Yes	Yes	Yes	Yes	Yes
		Yes	Yes	Yes	Yes	Yes	Yes
		128	128	128	128	128	128
		Yes	Yes	Yes	Yes	Yes	Yes
		Yes	Yes	Yes	Yes	Yes	Yes
		Yes	Yes	Yes	Yes	Yes	Yes
		Yes	Yes	Yes	Yes	Yes	Yes
		Yes	Yes	Yes	Yes	Yes	Yes
		Yes	Yes	Yes	Yes	Yes	Yes
		Yes	Yes	Yes	Yes	Yes	Yes
		No	No	No	No	No	No

Technical Specifications

IEEE Network Protocols	GS305EP	GS305EPP	GS308EP	GS308EPP	GS316EP	GS316EPP
• IEEE 802.3 Ethernet • IEEE 802.3ab 1000BASE-T • IEEE 802.3u 100BASE-T • IEEE 802.1p Class of Service	• IEEE 802.1Q VLAN Tagging • IEEE 802.3x Full-duplex Flow Control • IEEE 802.3af PoE • IEEE 802.3at PoE+					
Management						
System Password	Yes	Yes	Yes	Yes	Yes	Yes
Web browserbased management GUI	Yes	Yes	Yes	Yes	Yes	Yes
PC Utility	No	No	No	No	No	No
Configurable Management VLAN	No	No	No	No	Yes	Yes
Port Mirroring	Yes	Yes	Yes	Yes	Yes	Yes
Max number of source ports allowed (one-to-one port mirroring)	1	1	1	1	1	1
Many-to-one Port Mirroring	Yes	Yes	Yes	Yes	Yes	Yes
Cable Test Utility	Yes	Yes	Yes	Yes	Yes	Yes
FW Upgrade Thru Plus Utility (TFTP)	No	No	No	No	No	No
Config download (to Switch) thru Plus Utility	No	No	No	No	No	No
Config upload (to server)	Yes	Yes	Yes	Yes	Yes	Yes
LEDs						
Per port	Speed, Link, Activity, PoE					
Per device						
Physical Specifications						
Power, System, PoE Max						
Dimensions (W x D x H)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.26 x 4.02 x 1.06 in)	286 x 102 x 27 mm (11.26 x 4.02 x 1.06 in)
Weight	0.39 kg (0.86 lb)	0.40 kg (0.88 lb)	0.49 kg (1.08 lb)	0.49 kg (1.08 lb)	0.883 kg (1.95 lb)	0.883 kg (1.95 lb)
Environmental Specifications						
Operating						
Operating temperature	32° to 104°F (0° to 40°C)					
Humidity (relative)	90% maximum relative humidity (RH), non-condensing					
Altitude	10,000 ft (3,000 m) maximum					
Storage						
Storage temperature	– 4° to 158°F (–20° to 70°C)					
Humidity (relative)	95% maximum relative humidity (RH), non-condensing					
Altitude	10,000 ft (3,000 m) maximum					

Technical Specifications

Electromagnetic Emissions and Immunity	GS305EP	GS305EPP	GS308EP	GS308EPP	GS316EP	GS316EPP
Certifications			CE mark, commercial FCC Part 15 class B CE/EN55032/24 VCCI ACMA CSA safety KC BSMI			
Warranty and Support						
Hardware Warranty (All Except China/India)			5-year warranty			
China/India			1-year warranty			
External Power Adapter Warranty			2-year warranty			
Technical Support (online, phone)			90 days free of Technical Support with registration			
ProSUPPORT OnCall 24x7 Service Plans	Category S1	Category S1	Category S1	Category S1	Category 1	Category 1
	PMB0S11-10000S	PMB0S11-10000S	PMB0S11-10000S	PMB0S11-10000S	PMB0311-10000S	PMB0311-10000S
	PMB0S31-10000S	PMB0S31-10000S	PMB0S31-10000S	PMB0S31-10000S	PMB0331-10000S	PMB0331-10000S
	PMB0S51-10000S	PMB0S51-10000S	PMB0S51-10000S	PMB0S51-10000S	PMB0351-10000S	PMB0351-10000S
Package Contents						
All Models			NETGEAR Plus Switch Power adapter (power cable varies by region) Wall installation kit Rubber feet Installation guide			
Optional Modules, Software Licenses and Accessories (For GS316EP and GS316EPP only)						
AGM731F		FP Transceiver 1000BASE-SX (Short range, multimode)				
AGM732F		SFP Transceiver 1000BASE-LX (Long range, single mode)				
AGM734-10000S		SFP Transceiver 1000BASE-T Copper RJ45 GBIC				