NETGEAR BUSINESS

Data Sheet | **GS105EP, GS105EPP, GS108EP, GS108EPP, GS116EP, GS116EPP**

Gigabit Ethernet PoE+ Easy Smart Managed Switches



Control and Configure Beyond Plug-and-Play

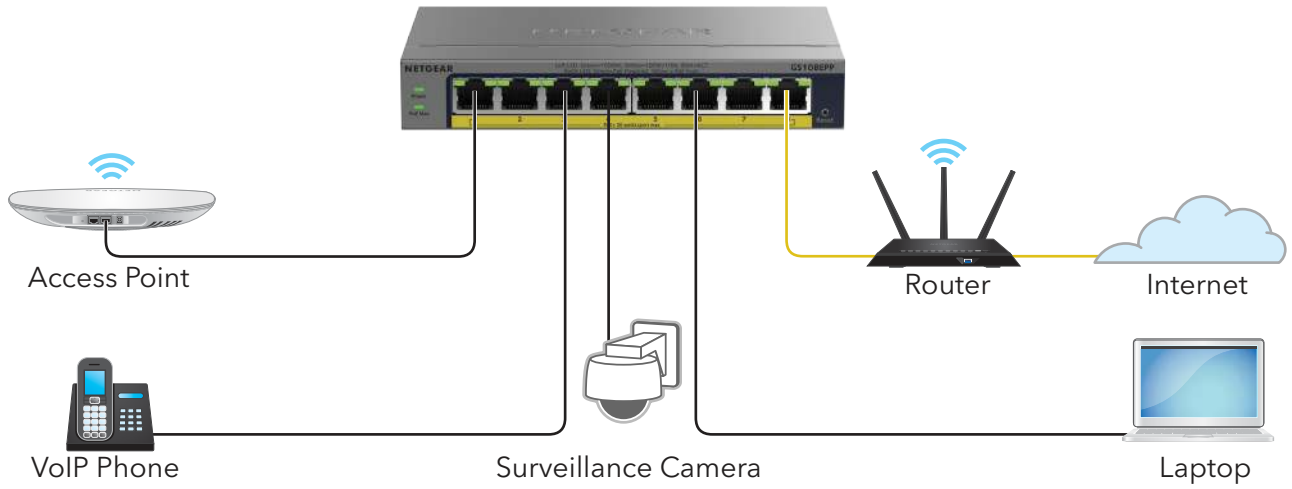


NETGEAR Easy Smart Managed Switches with PoE+ meet the needs of growing businesses by providing fundamental network features such as simplified VLANs, QoS set-up and IGMP Snooping that help optimize the performance of the network. Easy Smart Managed Switches are the perfect upgrade from the basic Unmanaged Switches, delivering essential networking management 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 PoE devices. These new Gigabit Ethernet PoE+ Easy Smart Managed Switch models include uninterruptable 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 an affordable price
- Simple, yet useful network set-up on top of plug-and-play connectivity
- Business-friendly and easy-to-use mobile-device friendly 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 prevention[1], loop detection[2], and broadcast storm controls
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Jumbo frame support
- Advanced features such as per port PoE controls
- Uninterrupted PoE keeps PoE power on even when the switch is updating firmware or performing a soft reboot
- 802.3at standard providing up to 30W per port
- Fanless with versatile mounting options (desktop and wall-mountable)

Small Office/Home Office Network Diagram



[1] Applies to GS116EP, GS116EPP

[2] Applies to GS105EP, GS105EPP, GS108EP, GS108EPP

Technical Specifications

Features	GS105EP	GS105EPP	GS108EP	GS108EPP	GS116EP	GS116EPP
10/100/1000 RJ45 Copper Ports (Auto Uplink)	5	5	8	8	16	16
Enclosure	Metal	Metal	Metal	Metal	Metal	Metal
Connector Type	Metal	Metal	Metal	Metal	Metal	Metal
PoE						
# of PoE ports	4	4	8	8	15	15
# PoE+ 802.3at Ports	4	4	8	8	15	15
SFP fiber ports	0	0	0	0	1	1
Total PoE/PoE+ Budget	63W	120W	62W	123W	180W	231W
Advanced PoE Controls	Yes	Yes	Yes	Yes	Yes	Yes
PoE Scheduling	No	No	No	No	Yes	Yes
Uninterrupted PoE	Yes	Yes	Yes	Yes	Yes	Yes
Performance Specification						
Forwarding modes	Store-and-forward					
Bandwidth	10Gbps	10Gbps	16Gbps	16Gbps	32Gbps	32Gbps
Max MAC entries	2K	2K	4K	4K	8K	8K
Buffer Size	1MB	1MB	1.5MB	1.5MB	4.1MB	4.1MB
Energy Efficient Ethernet (IEEE 802.3az) compliant	Yes	Yes	Yes	Yes	Yes	Yes
Priority queuing	WRR	WRR	WRR	WRR	WRR	WRR
Jumbo frame support	9,216 bytes	9,216 bytes	9,216 bytes	9,216 bytes	10,000 bytes	10,000 bytes
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	0	0	0	0	0	0
Mean Time Between Failures (MTBF) @ 25° C	1,164,104 hrs	853,770 hrs	859,126 hrs	842,428 hrs	784,742 hrs	570,435 hrs
L2 Services - VLANS						
VLAN (# Supported)	64	64	64	64	64	64
IEEE 802.1Q VLAN Tagging	Yes	Yes	Yes	Yes	Yes	Yes
Port-based VLANs	Yes	Yes	Yes	Yes	Yes	Yes
L2 Services - Availability						
Link Aggregation/Port Trunking	Yes	Yes	Yes	Yes	Yes	Yes
Number of Static Manual LAGs and # of members	1/4	1/4	2/4	2/4	8/8	8/8
L2 Services - Multicast Filtering						
IGMP snooping (v1, v2, and v3)	Yes	Yes	Yes	Yes	Yes	Yes
Block unknown multicast	Yes	Yes	Yes	Yes	Yes	Yes
Supported Multicast groups	128	128	128	128	128	128
L3 Services - DHCP						
DHCP client	Yes	Yes	Yes	Yes	Yes	Yes
Quality of Service						
Rate Limiting	Yes	Yes	Yes	Yes	Yes	Yes
DSCP	Yes	Yes	Yes	Yes	Yes	Yes
IEEE 802.1p COS	Yes	Yes	Yes	Yes	Yes	Yes
Port-based VLAN	Yes	Yes	Yes	Yes	Yes	Yes
TOS	Yes	Yes	Yes	Yes	Yes	Yes
WRR (Weighted Round Robin)	Yes	Yes	Yes	Yes	Yes	Yes
Strict Priority queue technology	No	No	No	No	No	No

Technical Specifications

IEEE Network Protocols	GS105EP	GS105EPP	GS108EP	GS108EPP	GS116EP	GS116EPP
	• IEEE 802.3 Ethernet • IEEE 802.3ab 1000BASE-T • IEEE 802.3u 100BASE-T • EEE 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
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 HTTP	Yes	Yes	Yes	Yes	Yes	Yes
Config Restore (to Switch) Thru HTTP	Yes	Yes	Yes	Yes	Yes	Yes
Config Backup (to Server) Thru HTTP	Yes	Yes	Yes	Yes	Yes	Yes
LEDs						
Per port	Speed, Link, Activity, PoE					
Per device	Power, System, PoE Max					
Physical Specifications						
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	0.40 kg (0.88 lb)	0.40 kg (0.88 lb)	0.49 kg (1.08 lb)	0.49 kg (1.08 lb)	0.83 kg (1.83 lb)	0.83 kg (1.83 lb)
Environmental Specifications						
Power Consumption						
No PoE	4.9W	4.5W	6W	5.9W	10.09W	10.2W
With PoE max	74.7W	137.8W	74.4W	141.4W	198.7W	250.6W
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	GS105EP	GS105EPP	GS108EP	GS108EPP	GS116EP	GS116EPP
Certifications	CE mark, commercial FCC Part 15 class B CE/EN55032/24 VCCI ACMA CSA safety KC BSMI					
Warranty and Support						
Switch Warranty (All Except China/India)	Limited Lifetime Warranty*					
Switch Warranty (China/India)	5-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 S2 PMB0S12-10000S PMB0S32-10000S PMB0S52-10000S	Category S2 PMB0S12-10000S PMB0S32-10000S PMB0S52-10000S	Category S2 PMB0S12-10000S PMB0S32-10000S PMB0S52-10000S	Category S2 PMB0S12-10000S PMB0S32-10000S PMB0S52-10000S	Category 1 PMB0311-10000S PMB0331-10000S PMB0351-10000S	Category 1 PMB0311-10000S PMB0331-10000S PMB0351-10000S
Package Contents						
All Models	NETGEAR Easy Smart Managed Switch Power adapter (power cable varies by region) Wall-mount installation kit Rubber feet Documentation Download Flyer					

Ordering Information

Ordering Information	
GS105EP-100NAS	North America and Latin America
GS105EP-100EUS	Europe and United Kingdom
GS105EPP-100NAS	North America and Latin America
GS105EPP-100EUS	Europe and United Kingdom
GS108EP-100NAS	North America and Latin America
GS108EP-100EUS	Europe and United Kingdom
GS108EPP-100NAS	North America and Latin America
GS108EPP-100EUS	Europe and United Kingdom
GS116EP-100NAS	North America and Latin America
GS116EP-100EUS	Europe and United Kingdom
GS116EPP-100NAS	North America and Latin America
GS116EPP-100EUS	Europe and United Kingdom
Optional Modules, Software Licenses and Accessories (For GS116EP and GS116EPP only)	
AGM731F	FP Transceiver 1000BASE-SX (Short range, multimode)
AGM732F	SFP Transceiver 1000BASE-LX (Long range, single mode)
AGM734	SFP Transceiver 1000BASE-T Copper RJ45 GBIC

*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.

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