







Expanding Wired Connectivity for SOHO Networks needing PoE

NETGEAR 300 Series Gigabit Ethernet Unmanaged Switches with PoE provide easy, reliable, and affordable network connectivity for home and small offices. With these unmanaged plug-and-play switches, you can expand your network connections to multiple devices instantly. The unmanaged switches provides power and data from a single Ethernet (CAT-5e) cable to devices such as IP cameras, VoIP/ Internet-based phones, wireless access points, etc. The majority of these models also support PoE power auto-balance and allocation feature. NETGEAR's unique PoE technology automatically balances the PoE power based on the device needs independent of PoE class detected. These switches deliver the power the device needs, at the most granular level.

Outstanding power flexibility with NETGEAR's exclusive FlexPoE

The GS308PP, GS316P, and GS316PP support NETGEAR's exclusive FlexPoE upgradeable PoE power feature. Powered by the industry's first flexible PoE+ integrated technology, you can increase or decrease the PoE budget by simply purchasing a new NETGEAR. FlexPoE power supply, effectively futureproofing small business networks and budgets. With NETGEAR's exclusive FlexPoE, these two switches help businesses cost effectively increase their power budget to expand their network as needed. All ports support PoE/PoE+ up to 30W per port, which makes them the perfect switches for deploying Wireless APs, Pan/ Tilt/Zoom and fixed IP Cameras, VoIP Phones, access-limited security door locks or any other IoT PoE-powered devices.

The GS308PP, GS316P, and GS316PP have copper Gigabit Ethernet PoE+ ports featuring NETGEAR FlexPoE power. The GS308PP ships with 83W[§] of PoE budget, GS316P ships with 115W[§], and the GS316PP features an astounding 183W[§] of PoE power budget. Should you need more power in the future, rather than replacing the entire switch, with NETGEAR FlexPoE, you can just purchase the optional NETGEAR FlexPoE EPS130W Power Adapter, which will boost the PoE budget of your GS308PP and with the EPS200W Power Adapter, which will boost the PoE budget of your GS316P.

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Highlights

- Auto-MDI/MDIX eliminates the need for crossover cables
- LED indicators for ease of use
- Energy-efficient technology for power savings
- Fanless design for silent operation
- Auto-negotiation for automatic connection at the highest common speed between switch and an end device

- Non-blocking switching architecture for maximum throughput at wire speed
- Plug-and-play; no setup required
- Durable and rugged metal case
- Desktop or wall-mountable (based on specific model)
- Ideal for small office and home networks
- Standards-based technology ensures interoperability with any standards-based devices in the existing network
- 802.3af and 802.3at Power Over Ethernet (PoE and /PoE+, depending on specific model) for IP cameras, VoIP/ Internet-based phones, wireless access points.



Expanding Wired Connectivity for SOHO Networks

Increase or decrease your PoE budget anytime by simply upgrading your switch Power Supply, without having to purchase a new switch. Future-proof your PoE budget with GS308PP or GS316P. And if you have power-hungry devices and directly need a high power PoE switch, buy G316PP. This unique combination from NETGEAR Business makes these switches the most adaptive in the market.

The following table describes the Accessory Power Adapters which are sold separately:

Switch Model	Power Adapter Model	Power Adapter Wattage	PoE+ Power Wattage
GS308PP (Comes w/90W PA)	EPS90W	90W	83W
	EPS130W	130W	123W
GS316P (Comes w/130W PA)	EPS90W	90W	76W
	EPS130W	130W	115W
	EPS200W	200W	183W
GS316PP (Comes w/200W PA)	EPS90W	90W	76W
	EPS130W	130W	115W
	EPS200W	200W	183W

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Features	GS305P	GS305PP	GS308P	GS308PP	GS316P	GS316PP
10/100/1000Mbps Ports (Auto Uplink)	5	5	8	8	16	16
Enclosure	Metal	Metal	Metal	Metal	Metal	Metal
Connector Type	Metal	Metal	Metal	Metal	Metal	Metal
Form Factor	Desk	top or wall-mour	ntable	Desktop or wall-mountable		
Power On/Off Switch	No	No	No	No	No	No
PoE Configuration						
802.3af PoE Ports	4	4	4	8	16	16
802.3at PoE+ Ports	N/A	4	N/A	8	16	16
PoE Max Power Per Port	Up to 15.4W	Up to 30W	Up to 15.4W	Up to 30W	Up to 30W	Up to 30W
Total PoE Power Budget**	55W	83W	53W	83W§	76W§	76W§
PoE auto-balance	Yes	Yes	No	Yes	Yes	Yes
Power Consumption						
DC Input/Power In	48V, 1.25A	54V, 1.66A	48V, 1.25A	54V, 1.66A	54V, 2.4A	54V, 3.7A
Power Consumption (Max and Standby)	60W/0.96W	88.89W/ 1.55W	60.0W/ 0.28W	87.9W/ 1.23W	127.9W/ 2.68W	195.9 W/ 2.67W
Heat Dissipation (Max and Standby) (BTU/Hr)	205.2 BTU / 3.28 BTU	304BTU/ 5.3BTU	205.20 BTU/ 0.96 BTU	300.6 BTU/ 3.69BTU	437.42 BTU/ 9.18BTU	669.9 BTU/ 9.14BTU
Performance Specification						
Bandwidth (Non-Blocking)	10 Gbps	10 Gbps	16 Gbps	16 Gbps	32 Gbps	32 Gbps
Packet Buffer Memory (Dynamically shared across only used ports)	128 KB	128 KB	192 KB	192 KB	1MB	1MB
Jumbo Frame Support	9,216 bytes	9,216 bytes	9,720 bytes	9,216 bytes	9,216 bytes	9,216 bytes
Queue WRR (Weighted Round Robin) Ratio	1:3:5:7:8	:10:12:15	1:2:4:8		1:3:5:7:8:10:12:1	5
Forwarding Rate (using 64-byte packets) - 1000Mbps Port	1,448,000 pps	1,448,000 pps	1,448,000 pps	1,448,000 pps	1,448,000 pps	1,448,000 pps
Latency (using 64-byte packets) - 1000Mbps Port (average)	< 2.6 µsec	< 2.6 µsec	< 3.0 µsec	< 3.0 µsec	< 3.7 µsec	< 3.7 µsec
MAC Address Table Size	2K	2K	4K	4K	4K	4K
Auto MDI/MDI-X Cable Detection	Yes	Yes	Yes	Yes	Yes	Yes
Auto-sensing Half/Full Duplex Switched Ports	Yes	Yes	Yes	Yes	Yes	Yes
Mean Time Between Failures (MTBF) @ 25° C	3,222,482 hours	6,710,127 hours	2,244,211 hours	2,752,476 hours	2,362,192 hours	2,362,192 hours
LEDs						
Per port	Speed, Link/ Activity (Left), Ports 1-4: PoE Power (Right)	Speed, Link/ Activity (Left), Ports 1-4: PoE Power (Right)	Speed, Link/Activity (Left), Ports 1-4: PoE Power (Right)	Speed, Link/Activity (Left), PoE (Right)	Speed, Link/Activity (Left), PoE (Right)	Speed, Link/Activity (Left), PoE (Right)
Per device	Power, PoE Max	Power, PoE Max	Power, PoE Max	Power, PoE Max	Power, PoE Max	Power, PoE Max

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Quality of Service (QoS)	GS305P	GS305PP	GS308P	GS308PP	GS316P	GS316PP	
802.1P Based (CoS) Supported	Yes	Yes	Yes	Yes	Yes	Yes	
Honors DSCP (DiffServ) Tags	No	No	No	Yes	Yes	Yes	
Energy Efficiency							
Energy Efficient Ethernet (EEE) IEEE 802.3az compliant	Yes	Yes	Yes	Yes	Yes	Yes	
Auto Power Down	No	No	Yes	Yes	Yes	Yes	
Short Cable Detection	Yes	Yes	Yes	Yes	Yes	Yes	
Fan/Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	
Physical Specifications							
Dimensions (W x D x H)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)	236 x 102 x 27 mm (9.3 x 4 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4 x 1.1 in)	
Weight	0.41 kg (0.90 lb)	0.41 kg (0.90 lb)	0.46 kg (1.02 lb)	0.6 kg (1.32 lb)	0.88 kg (1.94 lb)	0.88 kg (1.94 lb)	
Environmental Specifications							
Operating							
Operating Temperature	0° to 40°C (32° to 104°F)						
Humidity	90% maximum relative humidity (RH), non-condensing						
Altitude	10,000 ft (3,000 m) maximum						
Storage							
Storage Temperature	-20° to 70°C (- 4° to 158°F)						
Humidity (relative)	95% maximum relative humidity (RH), non-condensing						
Electromagnetic Emissions and Immunity							
Certifications	CE Mark, FCC Part 15 Class B, IC Class B, RCM, VCCI	CE Mark, FCC Part 15 Class B, IC Class B, RCM, CCC, VCCl	CE Mark, FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, VCCI, BSMI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, VCCI, BSMI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, VCCI, BSMI, KC	
Bandwidth (Non-Blocking)							
Certifications	CB, CE LVD	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD	CB, CE LVD	CB, CE LVD	
IEEE Network Protocols							

- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.3u 100BASE-TX Fast Ethernet

• IEEE 802.3i 10BASE-T Ethernet

- IEEE 802.1p Priority QoS (all models)
- IEEE 802.3 CSMA/CD
- 802.3az Energy Efficient Ethernet

NETGEAR[®] B U S I N E S S

Warranty and Support *	GS305P	GS305PP	GS308P	GS308PP	GS316P	GS316PP	
All Except China	3-year Warranty						
China	1-year Warranty						
Power Adapter Warranty	2-years						
Technical Support (online, phone)	90 days free from date of purchase						
ProSUPPORT Category	Category S1	Category S1	Category S2	Category S2	Category S2	Category S2	
ProSUPPORT OnCall 24x7 Service Plan	PMB0S11- 10000S (1 yr) PMB0S31- 10000S (3 yrs) PMB0S51- 10000S (5 yrs)	PMB0S11- 10000S (1 yr) PMB0S31- 10000S (3 yrs) PMB0S51- 10000S (5 yrs)	PMB0S12- 10000S (1 yr) PMB0S32- 10000S (3 yrs) PMB0S52- 10000S (5 yrs)	PMB0S12- 10000S (1 yr) PMB0S32- 10000S (3 yrs) PMB0S52- 10000S (5 yrs)	PMB0S12- 10000S (1 yr) PMB0S32- 10000S (3 yrs) PMB0S52- 10000S (5 yrs)	PMB0S12- 10000S (1 yr) PMB0S32- 10000S (3 yrs) PMB0S52- 10000S (5 yrs)	
Package Contents							
All Models		NETGEAR Gigabit Ethernet Unmanaged Switch Power adapter/cord (localized to the country of sale) Rubber footpads for desktop installation Wall mount kit Installation Guide					
Optional Modules and Accessories							
EPS90W	90W External Power Adapter						
EPS130W	130W External Power Adapter						
EPS200W	200W External Power Adapter						
Technical Specifications for Accessory Power Adapters							
Power Adapter Warranty	2-years						
Technical Support	90 days of free technical spoort						
ProSUPPORT Contract Option	No						
Auto-applied contracts	No						

[§] NETGEAR FlexPoE power - interchangable external power adapter allows for increasing or decreasing your PoE budget at any time with optional NETGEAR FlexPoE power adapters.

Actual SKU availability may vary per region. Please check the local website for product availability.

'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; see http:// www.netgear.com/about/warranty/ for details. 24/7 basic technical support provided for 90 days from purchase date when purchased from a NETGEAR authorized reseller.

** Maximum PoE power supplied is 15.4W per port, but not to exceed 53W total power supplied across all PoE connected devices.

⁺ 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.

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