

Expanding Wired Connectivity for SOHO Networks

NETGEAR 300 Series Gigabit Ethernet Unmanaged Switches 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 GS305P/GS305PP and GS308PP with Power-over-Ethernet (PoE) provides power and data from a single Ethernet (CAT-5) cable to devices such as IP cameras, VoIP/Internet-based phones, wireless access points, etc.

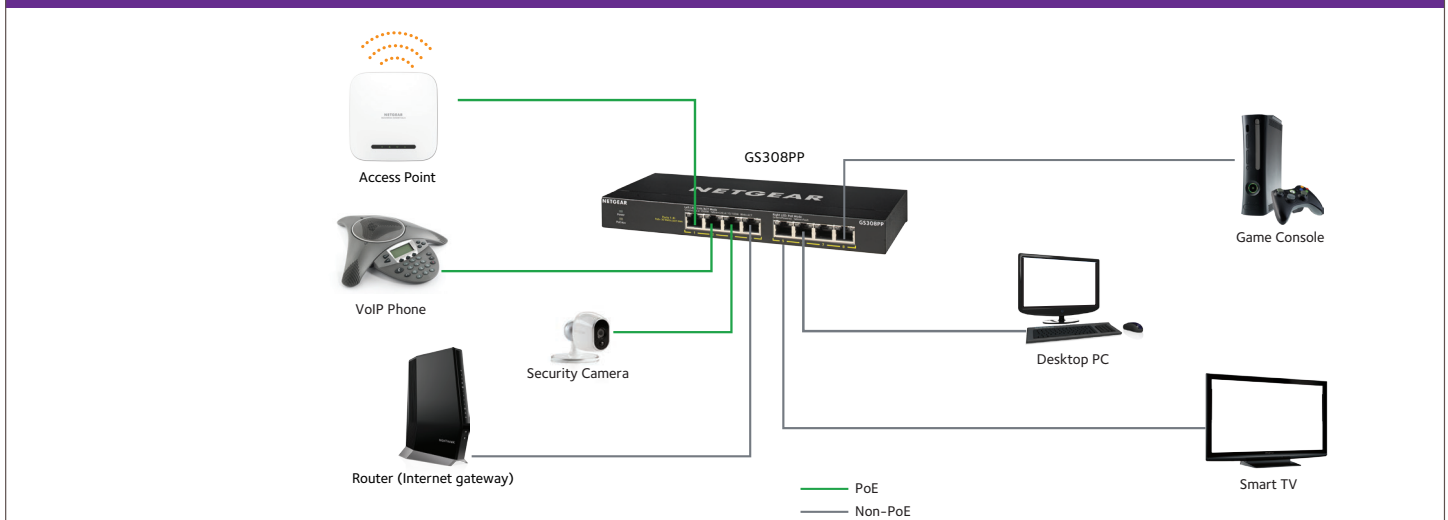
Just step up to GS324 or GS348 directly to avoid congestion due to stacking up lower port count switches and be ready for future expansion.

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
- 802.1p QoS for traffic/frame prioritization
- Plug-and-play; no setup required
- Durable and rugged metal case
- Desktop or wall-mountable (5 and 8 models); GS324 is desktop, wall-mountable, and rack-mountable (rack-mount kit included); GS348 is rack-mountable (rack-mount kit included)
- Ideal for small office and home networks
- Standards-based technology ensures interoperability with any standards-based devices in the existing network
- Power up to 4 PoE-capable devices (GS305P/GS305PP only)
- 802.3af and 802.3at Power-Over-Ethernet for IP cameras, VoTP/Internet based phones, wireless access points

Example Application

SMALL OFFICE/HOME OFFICE NETWORK DIAGRAM



Features	GS305	GS308	GS305P	GS305PP	GS308PP	GS324	GS348
10/100/1000Mbps Ports (Auto Uplink)	5	8	5	5	8	24	48
Enclosure	Metal	Metal	Metal	Metal	Metal	Metal	Metal
Connector Type	Metal	Metal	Metal	Metal	Metal	Plastic	Metal
Form Factor	Desktop or wall-mountable	Desktop or wall-mountable	Desktop or wall-mountable	Desktop or wall-mountable	Desktop or wall-mountable	Desktop, wall-mountable, rack-mountable	Desktop, rack-mountable
Power On/Off Switch	No	Yes	No	No	No	No	No
Performance Specifications							
Bandwidth (Non-Blocking)	10 Gbps	16 Gbps	10 Gbps	10 Gbps	16 Gbps	48 Gbps	96Gbps
Packet Buffer Memory (Dynamically shared across only used ports)	128 KB	192KB	128 KB	128 KB	192 KB	512 KB	1.5MB
Jumbo Frame Support	9,216 bytes	9,216 bytes	9,216 bytes	9,216 bytes	9,216 bytes	9,216 bytes	9,216 bytes
Queue WRR (Weighted Round Robin) Ratio	1:2:4:8	1:2:4:8	1:3:5:7:8:10:12:15	1:3:5:7:8:10:12:15	1:3:5:7:8:10:12:15	1:2:4:8	1:3:5:7:8:10:12:15
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	1,448,000 pps
Latency (using 64-byte packets) - 1000Mbps Port (average)	< 2.6 µsec	< 2.6 µsec	< 2.4 µsec	< 2.4 µsec	< 3.0 µsec	< 4.7 µsec	< 4 µsec
MAC Address Table Size	2K	8K	2K	2K	4K	8K	8K
Auto MDI/MDI-X Cable Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto-sensing Half/Full Duplex Switched Ports	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean Time Between Failures (MTBF) @ 25° C	3,831,422 hours	3,711,898 hours	4,113,947 hours	6,189,896 hours	2,752,476 hours	620,798 hours	1,094,297 hours
LEDs							
Per port	Link/Activity	Link/Activity	Speed, Link/Activity (Left), Ports 1-4: PoE (Right)	Speed, Link/Activity (Left), Ports 1-4: PoE (Right)	Speed, Link/Activity (Left), Ports 1-8: PoE (Right)	Speed, Link/Activity	Speed, Link/Activity
Per device	Power	Power	Power, PoE Max	Power, PoE Max	Power, PoE Max	Power	Power
Quality Of Service (QOS)							
Energy Efficient Ethernet (IEEE 802.3az)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Power Down	Yes	Yes	No	No	No	Yes	Yes
POE Configuration							
802.3af/802.3at PoE Ports	n/a	n/a	Ports 1-4	Ports 1-4	Ports 1-8	n/a	n/a
PoE Max Power Per Port	n/a	n/a	up to 30W	up to 30W	up to 30W	n/a	n/a
Total PoE Power Budget**	n/a	n/a	up to 63W	Up to 83W	83W (FlexPoE upgradeable to 123W using 130W power adapter)	n/a	n/a
Power/Consumption							
DC Input/Power In	5V / 0.7A	12V / 0.5A	54V / 1.25A	54V / 1.66A	54V/1.66A (FlexPoE 130W power adapter: 54V/2.4A)	Internal (AC:110-240V, 50/60Hz, 1.0A max)	Internal (AC: 110-240V, 50/60Hz, 1.0A max)
Power Consumption (Max and Standby)	2.15W/0.31W	3.04W/0.36W	66.78W/1.02W	88.89W/2.89W	90W/3.86W	11.1W/8.47W	23W/8.81W
Heat Dissipation (Max and Standby) (BTU/Hr)	7.35 BTU/1.06 BTU	10.40 BTU/1.06 BTU	228.38 BTU/3.24 BTU	304BTU/5.3BTU	300.6 BTU/3.69 BTU	37.96 BTU/28.97 BTU	78.66 BTU/30.13 BTU

Energy Efficiency	GS305	GS308	GS305P	GS305PP	GS308PP	GS324	GS348
Energy Efficient Ethernet (EEE) IEEE 802.3az compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Power Down	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Short Cable Detection	Yes	Yes	Yes	Yes	Yes	Yes	No
Fan/Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless

Physical Specifications

Width x Depth x Height	101 x 94 x 29 mm (4.0 x 3.7 x 1.1 in)	158 x 101 x 29 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 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)	252 x 180 x 44 mm (9.9 x 7.1 x 1.7 in)	440 x 202 x 43 mm (17.3 x 8 x 1.7 in)
Weight	0.25 kg (0.55 lb)	0.39 kg (0.86 lb)	0.40 kg (0.88 lb)	0.41 kg (0.90 lb)	0.6 kg (1.32 lb)	1.31 kg (2.90 lb)	3.15 kg (6.95 lb)

Environmental Specifications

Operating

Operating temperature	0° to 40°C (32° to 104°F)
Humidity (relative)	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, VCCI, KC	CE Mark, FCC Part 15 Class B, IC Class A, RCM, CCC, VCCI, KC	CE Mark, FCC Part 15 Class B, IC Class A, RCM, CCC, VCCI, KC	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, CCC, VCCI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC
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Safety Certifications

Certifications	CB, CE LVD	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD	CB, CE LVD, CCC	CB, CE LVD, CCC
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IEEE Network Protocols

- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3i 10BASE-T Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.1p Priority QoS (all models)
- IEEE 802.1p Priority QoS and DSCP
- IEEE 802.3 CSMA/CD
- 802.3az Energy Efficient Ethernet

Warranty and Support*

All Except China	3-year Warranty
China	1-year Warranty
Technical Support (online, phone)	90 days free from date of purchase*

ProSUPPORT Category	Category S1	Category S1	Category S1	Category S1	Category S1	Category S2	Category S2
ProSUPPORT OnCall 24x7 Service Plans							
1 yr	PMB0311-10000S	PMB0311-10000S	PMB0311-10000S	PMB0311-10000S	PMB0311-10000S	PMB0512-10000S	PMB0512-10000S
3 yrs	PMB0331-10000S	PMB0331-10000S	PMB0331-10000S	PMB0331-10000S	PMB0331-10000S	PMB0532-10000S	PMB0532-10000S
5 yrs	PMB0351-10000S	PMB0351-10000S	PMB0351-10000S	PMB0351-10000S	PMB0351-10000S	PMB0552-20000S	PMB0552-20000S

Package Content

All Models	Unmanaged Gigabit Ethernet Switch
	Power cord (localized to country of sale)
	Rack mount kit (depending on model)
	Wall mount kit (depending on model)
	Rubber footpads (depending on model)
	Installation Guide

Ordering Information

GS305

GS305-300AUS	Australia
GS305-300JPS	Japan
GS305-300PAS	North America
GS305-300PES	Europe & Korea
GS305-300UKS	United Kingdom

GS305P

GS305P-300AUS	Australia
GS305P-300EUS	Europe including United Kingdom
GS305P-300INS	India
GS305P-300JPS	Japan
GS305P-300KOS	Korea
GS305P-300NAS	North America
GS305P-300PES	Middle East
GS305P-300PRS	China
GS305P-300TWS	Taiwan
GS305P-300UKS	Hong Kong

GS305PP

GS305PP-100AUS	Australia
GS305PP-100JPS	Japan
GS305PP-100NAS	North America
GS305PP-100PES	Europe & Korea
GS305PP-100UKS	United Kingdom

GS308

GS308-300JPS	Japan
GS308-300PAS	North America
GS308-300PES	Europe
GS308-300PRS	China
GS308-300UKS	United Kingdom

GS308PP

GS308PP-100AJS	Japan and Australia
GS308PP-100EUS	Europe including United Kingdom
GS308PP-100NAS	North America

GS324

GS324-100AUS	Australia
GS324-100EUS	Europe and United Kingdom
GS324-100INS	India
GS324-100JPS	Japan
GS324-100NAS	North America
GS324-100PRS	China

GS348

GS348-100AJS	Asia Pacific Region and New Zealand
GS348-100EUS	Europe
GS348-100NAS	North America

* 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.

** 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, January 2019. NETGEAR #1 in Europe Market Share according to Context data for Unmanaged and Smart Switches, January 2019.

The use of the proper type of cable is required for optimum performance. Please consult this Knowledge Base article for more information: www.netgear.com/cables

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