NETGEAR®

SOHO Gigabit Ethernet Switches

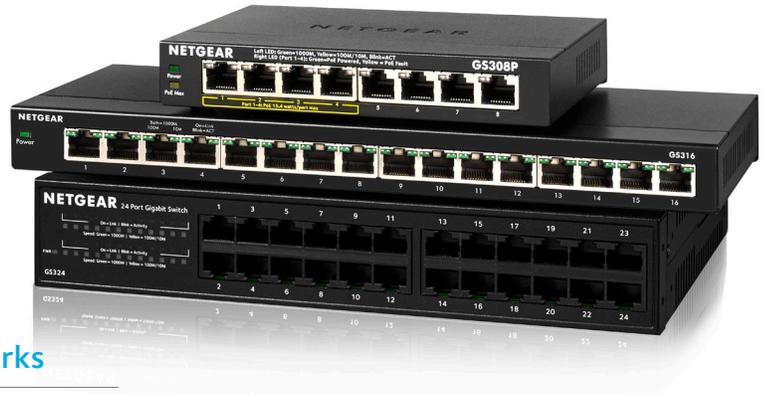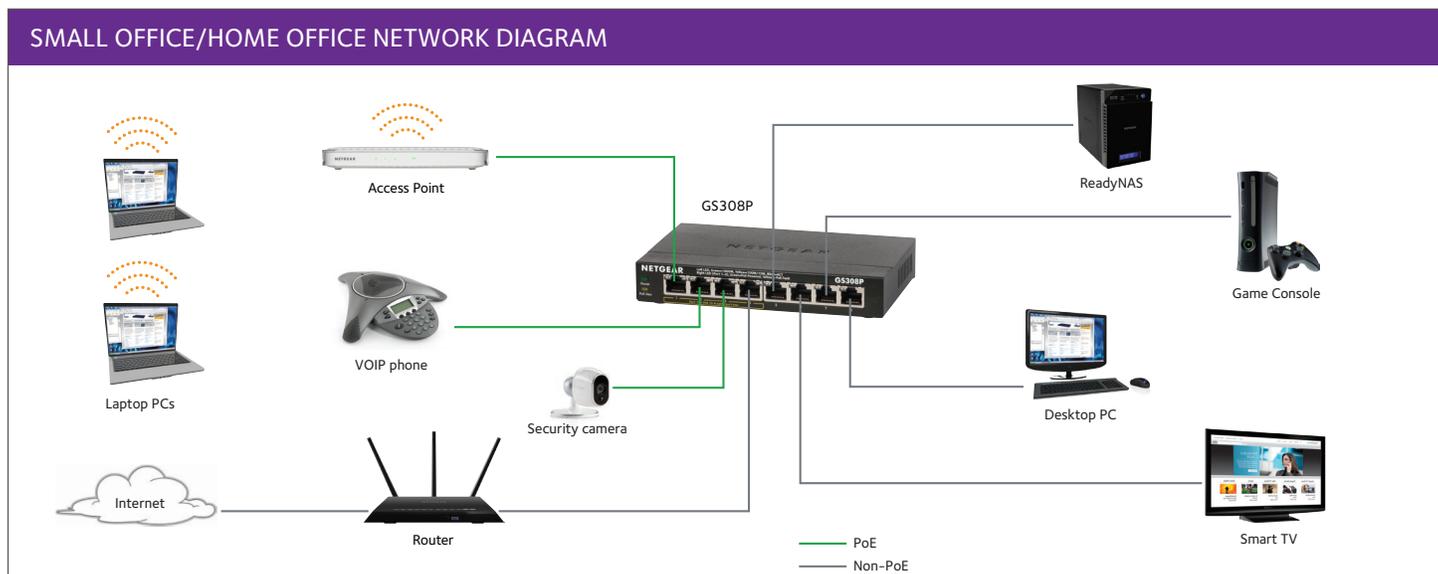**#1 IN UNMANAGED, WEB, & SMART SWITCHES**
In US & Europe Market Share according to NPD and Context, August 2018

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 and GS308P 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. With these unmanaged plug-and-play switches, you can expand your network connections to multiple devices instantly. Just step up to GS316, GS324 or GS348 directly to avoid congestion due to stacking up lower port count switches and be ready for future expansion.

- 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; GS324 is also 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 (15.4W per device up to 53W total PoE power) (GS308P only)

- 802.3af Power Over Ethernet (PoE) for IP cameras, VoIP/Internet-based phones, wireless access points (GS308P only)

SMALL OFFICE/HOME OFFICE NETWORK DIAGRAM

GS300 Series Comparison

Features	GS305v3	GS308v3	GS305P	GS308P	GS316	GS324	GS348
10/100/1000Mbps Ports (Auto Uplink)	5	8	5	8	16	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	16 Gbps	32 Gbps	48 Gbps	96Gbps
Packet Buffer Memory (Dynamically shared across only used ports)	128 KB	128 KB	128 KB	192 KB	768 KB	512 KB	1.5MB
Jumbo Frame Support	9,216 bytes	9,216 bytes	9,216 bytes	9,720 bytes	9,216 bytes	9,216 bytes	9,216 bytes
Queue WRR (Weighted Round Robin) Ratio	1:2:4:8	1:2:4:8	1:3:5:7:8:10:12:15	1:2:4:8	1:2:4:8	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	< 3.0 µsec	< 3.9 µsec	< 4.7 µsec	< 4 µsec
MAC Address Table Size	2K	8K	2K	4K	16K	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	3,222,482 hours	2,244,211 hours	9,041,798 hours	620,798 hours	1,094,297 hrs
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	Speed, Link/Activity	Speed, Link/Activity
Per device	Power	Power	Power, PoE Max	Power, PoE Max	Power	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 PoE Ports	n/a	n/a	Ports 1-4	Ports 1-4	n/a	n/a	n/a
PoE Max Power Per Port	n/a	n/a	up to 15.4W	up to 15.4W	n/a	n/a	n/a
Total PoE Power Budget**	n/a	n/a	up to 55.5W	up to 53W	n/a	n/a	n/a

GS300 Series Comparison

Features	GS305v3	GS308v3	GS305P	GS308P	GS316	GS324	GS348
POWER/CONSUMPTION							
DC Input/Power In	5V / 0.7A	12V / 0.5A	48V / 1.25A	48V / 1.25A	12V / 1.0A	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	60W/0.96W	60.0W/0.28W	8.4W/1.83W	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	205.2 BTU/ 3.28 BTU	205.20 BTU/ 0.96 BTU	28.73 BTU/ 6.26 BTU	37.96 BTU/ 28.97 BTU	78.66 BTU/ 30.13 BTU
ENERGY EFFICIENCY							
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 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)	286 x 101 x 26 mm (11.3 x 4.0 x 1.0 in)	252 x 180 x 44 mm (9.9 x 7.1 x 1.7 in)	440 x 202.3 x 43.2 mm (17.3 in. x 8 in. x 1.7 in.)
Weight	0.25 kg (0.55 lb)	0.39 kg (0.86 lb)	0.41 kg (0.90 lb)	0.46 kg (1.02 lb)	0.84 kg (1.86 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 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	CE Mark, FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC
SAFETY							
Certifications	CB, CE LVD	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD, CCC

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Features	GS305v3	GS308v3	GS305P	GS308P	GS316	GS324	GS348
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 (except GS308P, GS316) • IEEE 802.3 CSMA/CD • 802.3az Energy Efficient Ethernet						
WARRANTY AND SUPPORT*							
All Except China/India	3–year Warranty						
China/India	1–year Warranty						
Technical Support (online, phone)	90 days free from date of purchase*						
ProSUPPORT OnCall 24x7 Service Plans	PMB0311–10000S (1 yr) PMB0331–10000S (3 yrs) PMB0351–10000S (5 yrs)	PMB0311–10000S (1 yr) PMB0331–10000S (3 yrs) PMB0351–10000S (5 yrs)	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 (3yrs) PMB0S52–20000S (5 yrs)	PMB0S12–10000S (1 yr) PMB0S32–10000S (3yrs) PMB0S52–20000S (5 yrs)	PMB0S12–10000S (1 yr) PMB0S32–10000S (3yrs) PMB0S52–20000S (5 yrs)

NETGEAR, Inc. 350 E. Plumeria Drive, San Jose, CA 95134–1911 USA, 1–888–NETGEAR (638–4327), E–mail: info@NETGEAR.com, www.NETGEAR.com   D–300GIGSeries–17Jan19