





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 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.

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.

Highlights

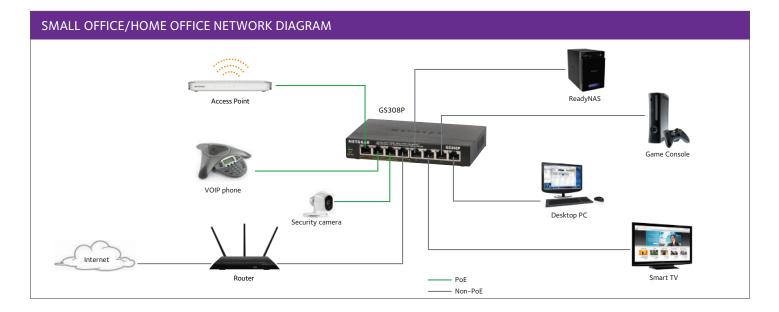
- Auto-MDI/MDIX eliminates the need for crossover cables
- LED indicators for ease of use
- Energy-efficient technology for power savings
- Fanless design for silent operation
- Auto-negotiation for automatic connection at the highest common speed between switch and an end device
- Non-blocking switching 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; 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 (GS305P/GS305PP and GS308P only)
- 802.3af Power Over Ethernet (PoE) for IP cameras, VoIP/Internet-based phones, wireless access points (GS308P only)



Example Application



NETGEAR[®] B U S I N E S S

Data Sheet | **300 Series** SOHO Gigabit Ethernet Switches

Features	GS305	GS308	GS305P	GS305PP	GS308P	GS316	GS324	GS348
10/100/1000Mbps Ports (Auto Uplink)	5	8	5	5	8	16	24	48
Enclosure	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal
Connector Type	Metal	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 or wall-mountable	Desktop, wall-mount- able, rack- mountable	Desktop, rack-mountable
Power On/Off Switch	No	Yes	No	No	No	No	No	No
Performance Specification	S							
Bandwidth (Non-Blocking)	10 Gbps	16 Gbps	10 Gbps	10 Gbps	16 Gbps	32 Gbps	48 Gbps	96Gbps
Packet Buffer Memory (Dynamical- ly shared across only used ports)	128 KB	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	9,216 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	1:3:5:7:8:10:12:15	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	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	< 3.9 µsec	< 4.7 µsec	< 4 µsec
MAC Address Table Size	2K	8K	2K	2K	4K	16K	8K	8K
Auto MDI/MDI-X Cable Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto-sensing Half/Full Duplex Switched Ports	Yes	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	6,189,896 hours	2,244,211 hours	9,041,798 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 1-4: PoE (Right)	Speed, Link/ Activity	Speed, Link/ Activity	Speed, Link/ Activity
Per device	Power	Power	Power, PoE Max	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	Yes
Auto Power Down	Yes	Yes	No	No	No	No	Yes	Yes
POE Configuration								
802.3af PoE Ports	n/a	n/a	Ports 1-4	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 30W	up to 15.4W	n/a	n/a	n/a
Total PoE Power Budget**	n/a	n/a	up to 55.5W	Up to 83W	up to 53W	n/a	n/a	n/a
Power/Consumption								
DC Input/Power In	5V/0.7A	12V/0.5A	48V/1.25A	54V/1.66A	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	2.89W/88.89W	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	304BTU/ 5.3BTU	205.20 BTU/ 0.96 BTU	28.73 BTU/ 6.26 BTU	37.96 BTU/ 28.97 BTU	78.66 BTU/ 30.13 BTU

NETGEAR[®] B U S I N E S S

Data Sheet | **300 Series** SOHO Gigabit Ethernet Switches

Energy Efficiency	GS305	GS308	GS305P	GS305PP	GS308P	GS316	GS324	GS348
Energy Efficient Ethernet (EEE) IEEE 802.3az compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Power Down	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Short Cable Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Fan/Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless
Physical Specification	15							
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)	158×101×29mm (6.2×4.0×1.1 in)	286x101x26mm (11.3x4.0x1.0in)	252x180x44mm (9.9 x 7.1 x 1.7 in)	440 x 202 x 43 m (17.3 x 8 x 1.7 ir
Weight	0.25 kg (0.55 lb)	0.39 kg (0.86 lb)	0.41 kg (0.90 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 Specif	fications							
Operating								
Operating temperature				0° to 40°C (32	2° to 104°F)			
Humidity (relative)			909	% maximum relative humi	idity (RH), non-condens	ing		
Altitude				10,000 ft (3,000	m) maximum			
Storage								
Storage temperature				-20° to 70°C (-	4° to 158°F)			
Humidity (relative)			959	% maximum relative humi	idity (RH), non-condens	ing		
Electromagnetic Emis	ssions and Immunity							
Certifications	CE Mark, FCC Part 15 Class B, IC Class B, RCM, VCCI	FCC Part 15 Class B, IC Class B, RCM, CCC, VCCI, KC	FCC Part 15 Class B, IC Class A, RCM, CCC, VCCI, KC	FCC Part 15 Class B, IC Class A, RCM, CCC, VCCI, KC	FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC	FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC	FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC	FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC
Safety Certification	IS							
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	CB, CE LVD, CCC
IEEE Network Protoco	ols							
 IEEE 802.3ab 1000BASE-T G IEEE 802.3u 100BASE-TX Fas IEEE 802.3i 10BASE-T Ethern IEEE 802.3x Flow Control 	st Ethernet			 IEEE 802.1p Priority IEEE 802.1p Priority IEEE 802.3 CSMA/C 802.3az Energy Effinition 	v QoS and DSCP (excep CD	t GS308P, GS316)		
Warranty and Suppor	rt*							
All Except China		3-year Warranty						
China		1-year Warranty						
Technical Support (online, phor	ne)			90 days free from d	late of purchase*			
ProSUPPORT Catego	ry Category S1	Category S1	Category S1	Category S1	Category S1	Category S2	Category S2	Category S2
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	1 yr 10000S	10000S	10000S	10000S	10000S	10000S	10000S	10000S
3	3 yrs PMB0331- 10000S	PMB0331- 10000S	PMB0331- 10000S	PMB0331- 10000S	PMB0331- 10000S	PMB0S32- 10000S	PMB0S32- 10000S	PMB0S32- 10000S
5	5 yrs PMB0351- 10000S	PMB0351- 10000S	PMB0351- 10000S	PMB0351- 10000S	PMB0351- 10000S	PMB0S52- 20000S	PMB0S52- 20000S	PMB0S52- 20000S



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GS316-100INS India GS316-100JPS Japan	GS308P-100UKS	United Kingdom
GS316-100JPS Japan	GS316-100AUS	Australia & New Zealand
	GS316-100INS	India
	GS316-100JPS	Japan
	GS316-100NAS	North America



Ordering Information	
GS316-100PES	Europe
GS316-100PRS	China
GS316-100UKS	United Kingdom
GS324-100AUS	Australia
GS324-100EUS	Europe and United Kingdom
GS324-100INS	India
GS324-100JPS	Japan
GS324-100NAS	North America
GS324-100PRS	China
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.

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