





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

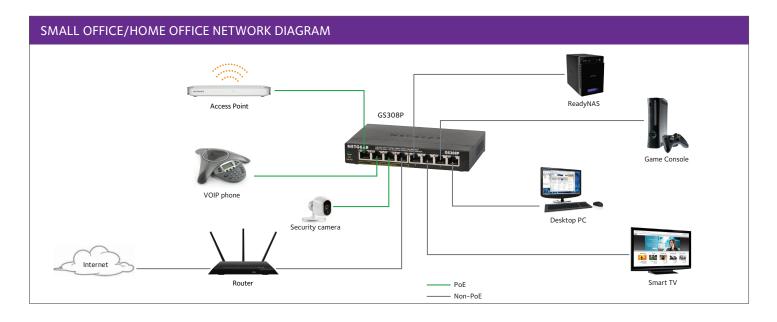
- Auto-MDI/MDIX eliminates the need for crossover cables
- LED indicators for ease of use
- Energy-efficient technology for power savings
- Fanless design for silent operation
- Auto-negotiation for automatic connection at the highest common speed between switch and an end device
- Non-blocking switching 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 (5, 8, 16-port 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 standardsbased 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





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-mountabl
Power On/Off Switch	No	Yes	No	No	No	No	No	No
Performance Specification	ns							
Bandwidth (Non-Blocking)	10 Gbps	16 Gbps	10 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	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
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 pp
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 hou
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: 110-240 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	7.35 BTU/	10.40 BTU/	205.2 BTU/	304BTU/	205.20 BTU/	28.73 BTU/	37.96 BTU/	78.66 BTU/



Team	Γ	CSOOF	CC200	CC20ED	CC20EDD	CC200D	CC247	CC224	CC240
See No.	Energy Efficient Ethernet (EEE)	GS305	GS308	GS305P	GS305PP	GS308P	GS316	GS324	GS348
Part	IEEE 802.3az compliant								
Part	Auto Power Down	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Physical Specifications	Short Cable Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Main	Fan/Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless
Mail	Physical Specifications								
	Width x Depth x Height								440 x 202 x 43 m (17.3 x 8 x 1.7 ir
Caperating Cap	Weight		-	-	_	-	_	_	-
O" to 40°C (32° to 104°F) O" to 158°F) O" to 158°F) O" to 158°F) O" to 158°F) O" to 158°F (32° to 104°C (4° to 158°F) O" to 158°F) O" to 158°F (32° to 104°C (4° to 158°F) O" to 158°F (32° to 158° to 158°F (32° to 158° to 1	Environmental Specifica	tions							
Marient 10,000 ft (2,000 m) maximum 10,000 ft (2,000 m) maxi	Operating								
Storage Stor	Operating temperature				0° to 40°C (32	° to 104°F)			
Stronge Stro	Humidity (relative)			909	% maximum relative humio	dity (RH), non-condens	ing		
Segregate temperature -20° to 70°Cl - 4° to 158°F	Altitude				10,000 ft (3,000	m) maximum			
Procession Process P	Storage								
CE Mark,	Storage temperature				-20° to 70°C (-	4° to 158°F)			
CE Mark, Cass 8, Cass 9,	Humidity (relative)			95	% maximum relative humio	dity (RH), non-condens	ing		
CE Mark FCC Part 15	Electromagnetic Emissio	ons and Immunity							
Certifications CB, CB, CE LVD, CE LV	Certifications	FCC Part 15 Class B, IC Class B, RCM,	IC Class B, RCM, CCC, VCCI,	IC Class A, RCM, CCC, VCCI,	IC Class A, RCM, CCC, VCCI,	IC Class A, RCM, CCC, VCCI,	IC Class A, RCM, CCC, VCCI,	IC Class A, RCM, CCC, VCCI,	IC Class A, RCM, CCC, VCCI,
CERTIFICATIONS CERT	Safety Certifications		, ac	NC .	NC .	, and	ile.	ile.	ille ille
FEEE Rotwork Protocols	Certifications		CE LVD,	CE LVD,	CE LVD,	CE LVD,	CE LVD,	CE LVD,	CE LVD,
• IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.1p Priority QoS and DSCP (except GS308P, GS316) • IEEE 802.3x Flow Control • IEEE 802.3x Flow Control • 802.3az Energy Efficient Ethernet • IEEE 802.3y Flow Control • 802.3az Energy Efficient Ethernet *** *** *** *** *** *** ***	IEEE Network Protocols								
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 Category S2 Category S2 Category S2 ProSUPPORT On Call 24x7 Service Plans 1 yr PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0331- 10000S PMB0331- 10000S PMB0331- 10000S PMB0331- PMB03	IEEE 802.3u 100BASE-TX Fast Eth IEEE 802.3i 10BASE-T Ethernet IEEE 802.3x Flow Control				IEEE 802.1p PriorityIEEE 802.3 CSMA/C	QoS and DSCP (except)	t GS308P, GS316)		
Technical Support (online, phone) Fechnical Support (online, phone) For Support (online, phone) Support (online, p	Warranty and Support*								
ProSUPPORT Category Category S1 Category S2 PMBOS12- PMBOS11- PMBO311- PMBO331- PMBO331	All Except China				3-year Wa	arranty			
ProSUPPORT Category S1 Category S1 Category S1 Category S1 Category S1 Category S2 Categor	China				1-year Wa	arranty			
ProSUPPORT On Call 24x7 Service Plans 1 yr	Technical Support (online, phone)				90 days free from d	ate of purchase*			
1 yr PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0311- 10000S PMB0312- 10000S PMB0S12- 10000S PMB0S32- 10000S PMB0S32- 10000S PMB0S32- 10000S PMB0S12- 10000S	ProSUPPORT Category ProSUPPORT On Call	Category S1	Category S1	Category S1	Category S1	Category S1	Category S2	Category S2	Category S2
1 10000S	24x7 Service Plans	PMP0211	PMR0211	PMR0211	PMR0211	PMR0211	PMR0C12	PMR0C12	PMP0C12
³ yrs 10000S 1	1 yr	10000S	10000S	10000S	10000S	10000S	10000S	10000S	10000S
	3 yrs	10000S	10000S	10000S	10000S	10000S	10000S	10000S	10000S
	5 yrs								



Package Content					
	Unmanaged Gigabit Ethernet Switch				
	Power cord (localized to country of sale)				
All Models	Rack mount kit (depending on model)				
	Rubber footpads (depending on model) Installation Guide				
Ordering Information	Installation Guide				
GS305-300JPS	Japan				
GS305-300PAS	North America				
GS305-300PES	Europe				
GS305-300UKS	United Kingdom				
GS308-300JPS	Japan				
GS308-300PAS	North America				
GS308-300PES	Europe				
GS308-300UKS	United Kingdom				
GS308-300PRS	China				
GS305P-100AUS	Australia & Asia				
GS305P-100INS	India				
GS305P-100JPS	Japan				
GS305P-100NAS	North America				
GS305P-100PES	Europe				
GS305P-100UKS	United Kingdom & Asia				
GS305PP-100NAS	North America				
GS305PP-100PES	Europe & Korea				
GS305PP-100UKS	United Kingdom				
GS305PP-100AUS	Australia				
GS305PP-100JPS	Japan				
GS308P-100AUS	Australia				
GS308P-100INS	India				
GS308P-100JPS	Japan				
GS308P-100NAS	North America				
GS308P-100PES	Europe				
GS308P-100PRS	China				
GS308P-100UKS	United Kingdom				
GS316-100AUS	Australia & New Zealand				
	i P				
GS316-100INS	India				
GS316-100INS GS316-100JPS	Japan				





GS316-100PES China CS316-100UKS United Kingdom GS324-100AUS Australia Europe and United Kingdom GS324-100INS India GS324-100JPS Japan GS324-100NAS North America GS324-100PRS China Asia Pacific Region and Naw Zealand	Ordering Information	
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	GS316-100PES	Europe
GS324-100AUS GS324-100EUS Europe and United Kingdom GS324-100INS India GS324-100JPS Japan GS324-100NAS North America GS324-100PRS China	GS316-100PRS	China
GS324-100EUS Europe and United Kingdom GS324-100INS India GS324-100JPS Japan GS324-100NAS North America GS324-100PRS China	GS316-100UKS	United Kingdom
GS324-100INS India GS324-100JPS Japan GS324-100NAS North America GS324-100PRS China	GS324-100AUS	Australia
GS324-100JPS Japan GS324-100NAS North America GS324-100PRS China	GS324-100EUS	Europe and United Kingdom
GS324-100NAS North America GS324-100PRS China	GS324-100INS	India
GS324-100PRS China	GS324-100JPS	Japan
	GS324-100NAS	North America
CC249 100A IC	GS324-100PRS	China
G5546-100AJ5 Asia Facilic Region and New Zealand	GS348-100AJS	Asia Pacific Region and New Zealand
GS348-100EUS Europe	GS348-100EUS	Europe
GS348-100NAS North America	GS348-100NAS	North America

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D-300GIGSeries-11Nov19

^{*} 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.