NETGEAR®

SOHO Gigabit Ethernet Switches

#1 IN UNMANAGED, WEB, & SMART SWITCHES¹

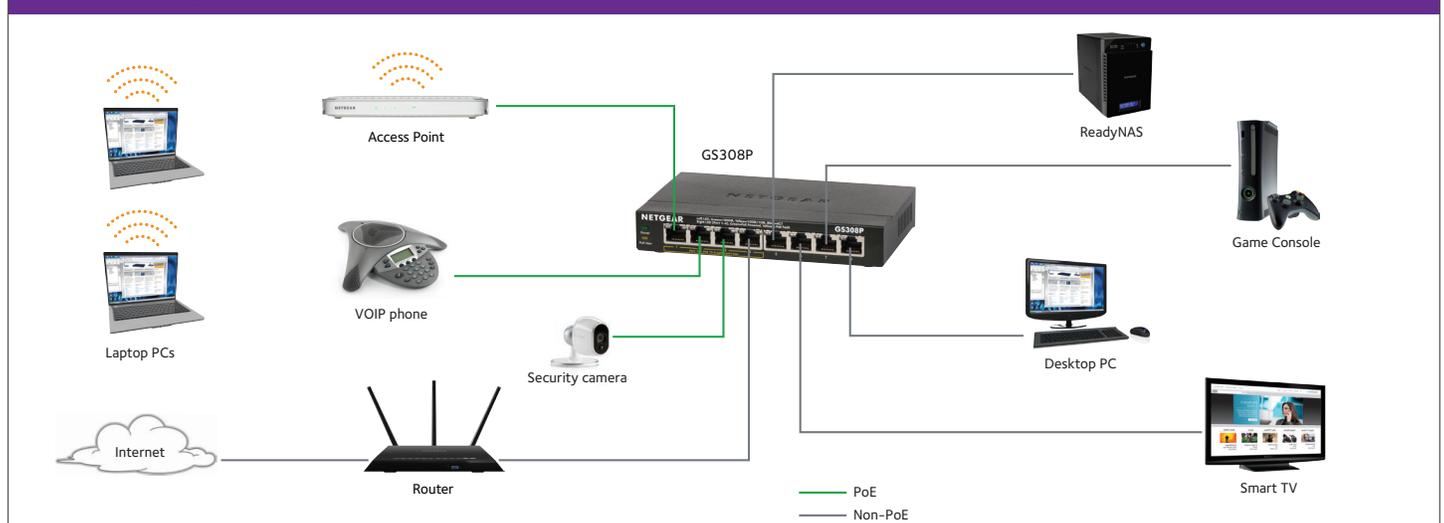¹In North America Market Share according to NPD, April 2015

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 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.

- 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

FEATURES	GS305	GS308	GS308P	GS316	GS324
10/100/1000Mbps PORTS	5	8	8	16	24
ENCLOSURE	Metal	Metal	Metal	Metal	Metal
CONNECTOR TYPE:	Plastic	Plastic	Metal	Metal	Plastic
PERFORMANCE:					
Bandwidth	10Gbps	16Gbps	16Gbps	32Gbps	48Gbps
Buffer Memory	128 KB	128 KB	192 KB	768 KB	512 KB
Jumbo Frames	9,216 bytes	9,216 bytes	9,720 bytes	9,216 bytes	9,216 bytes
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
Latency (using 64-byte packets) – 1000Mbps Port (average)	< 2.6 µsec	< 2.6 µsec	< 3.0 µsec	< 3.9 µsec	< 4.7 µsec
MAC Address Table Size	2K	8K	4K	16K	8K
POE SUPPORT:					
802.3af PoE Ports	n/a	n/a	Ports 1–4	n/a	n/a
PoE Max Power Per Port	n/a	n/a	up to 15.4W	n/a	n/a
Total PoE Power Budget**	n/a	n/a	up to 53W	n/a	n/a
ENERGY EFFICIENCY:					
Energy Efficient Ethernet (IEEE 802.3az)	Yes	Yes	Yes	Yes	Yes
Auto Power Down	Yes	Yes	Yes	Yes	Yes
Short Cable Detection	Yes	Yes	Yes	Yes	Yes
DC Input	5V / 0.7A	12V / 0.5A	48V / 1.25A	12V / 1.0A	Internal (AC: 110–240V, 50–60Hz, 1.0A max)
Power Consumption (Max and Standby)	2.34W / 0.45W	3.52W / 0.57W	60.0W / 0.28W	8.4W / 1.83W	11.1W / 8.47W
Power On/Off Switch	No	Yes	No	No	No
Heat Dissipation (Max and Standby)	8.00 BTU / 1.54 BTU	12.04 BTU / 1.95 BTU	205.20 BTU / 0.95 BTU	28.73 BTU / 6.26 BTU	37.96 BTU / 28.97 BTU
PORT LEDS	Power, Link / Activity	Power, Link / Activity	Power, Link / Activity (Left), Ports 1–4: PoE Power (Right)	Power, Speed, Link / Activity	Power, Speed, Link / Activity
PHYSICAL SPECIFICATIONS:					
Width x Depth x Height	101 x 94 x 29 mm	158 x 101 x 29 mm	158 x 101 x 29 mm	286 x 101 x 26 mm	252 x 180 x 44 mm
Weight	0.24 kg	0.48 kg	0.46 kg	0.84 kg	1.31 kg
ENVIRONMENT:					
Operating Temperature	0 ~ 40° C				
Storage Temperature	–20 ~ 70° C				
Operating Humidity	90% maximum relative humidity, non-condensing				
Storage Humidity	5% to 95% relative humidity				

Standards

- 802.3ab 1000BASE-T Gigabit Ethernet
- 802.3u 100BASE-TX Fast Ethernet
- 802.3i 10BASE-T Ethernet
- 802.3x Flow Control
- 802.1p Priority QoS (all models)
- 802.1p Priority QoS and Honors DSCP tags (GS305, GS308, GS324)
- 802.3 CSMA/CD
- 802.3az Energy Efficient Ethernet

Warranty*

- All except China/India: 3-year warranty
- China/India: 1-year warranty