Expanding Wired Connectivity for SOHO Networks

NETGEAR 300 Series Gigabit Ethernet unmanaged switches offer an array of features that make them the ideal choice for providing easy, reliable, and affordable network connectivity for home and small offices. With the convenience of plug-and-play operation, these unmanaged switches provide seamless connectivity to multiple devices without the need for complex configuration. The switches are designed to be energy-efficient, ensuring power savings while maintaining optimal network performance.

The NETGEAR 300 Series switches are available in 5, 8, 24, or 48 port models to meet the demands of a growing network. Instead of stacking mult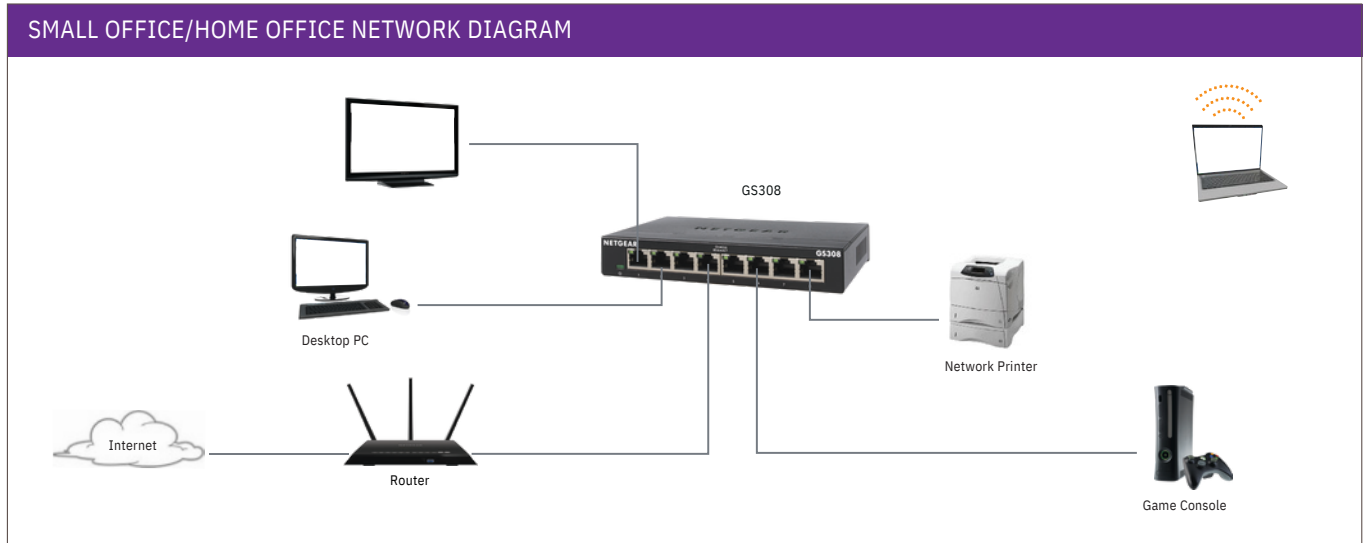iple lower port models and your network grows, the higher port models ensure maximum scalability by reducing switch congestion.

With their plug-and-play operation, energy-efficient technology, non-blocking switching architecture, and durable metal case, the NETGEAR 300 Series Gigabit Ethernet unmanaged switches offer a cost-effective and dependable solution for expanding network connectivity for home and small offices.

Highlight s

- Auto-MDI/MDIX eliminates the need for crossover cables
- LED indicators for ease of use
- Energy-efficient technology for power s av ings
- 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 net works
- Standards-based technology ensures interoperability with any standards-based devices in the existing network

Example Application

GS308

Desktop PC

Network Printer

Internet

Router

Game Console

Features	GS305v3	GS308v3	GS324v2	GS348
10/100/1000Mbps Ports (Auto Uplink)	5	8	24	48
Enclosure	Metal	Metal	Metal	Metal
Connector Type	Metal	Metal	Plastic	Metal
Form Factor	Desktop or wall-mountable	Desktop or wall-mountable	Desktop, wall-mountable, rack-mountable	Desktop, rack-mountable
Power On/Off Switch	No	Yes	No	No
Performance Specifications				
Bandwidth (Non-Blocking)	10 Gbps	16 Gbps	48 Gbps	96 Gbps
Packet Buffer Memory (Dynamically shared across only used ports)	128 KB	192 KB	512 KB	1.5 MB
Jumbo Frame Support	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	1:2:4:8	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
Latency (using 64-byte packets) - 1000Mbps Port (average)	< 2.6 μsec	< 2.6 μsec	< 4.7 μsec	< 4 μsec
MAC Address Table Size	2K	8K	8K	8K
Auto MDI/MDI-X Cable Detection	Yes	Yes	Yes	Yes
Auto-sensing Half/Full Duplex Switched Ports	Yes	Yes	Yes	Yes
Mean Time Between Failures (MTBF) @ 25° C	3,831,422 hours	3,711,898 hours	620,798 hours	1,094,297 hours
LEDs				
Per port	Link/Activity	Link/Activity	Speed, Link/Activity	Speed, Link/Activity
Per device	Power	Power	Power	Power
Quality of Service (QoS)				
Energy Efficient Ethernet (IEEE 802.3az)	Yes	Yes	Yes	Yes
Honors DSCP (DiffServ) Tags	Yes	Yes	Yes	Yes
Power/Consumption				
DC Input/Power In	5V / 0.7A	12V / 0.5A	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	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	37.96 BTU/ 28.97 BTU	78.66 BTU/ 30.13 BTU

Energy Efficiency	GS305v3	GS308v3	GS324v2	GS348
Energy Efficient Ethernet (EEE) IEEE 802.3az compliant	Yes	Yes	Yes	Yes
Auto Power Down	Yes	Yes	Yes	Yes
Short Cable Detection	Yes	Yes	Yes	No
Fan/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)	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)	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, VCCI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, VCCI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, VCCI, KC

Safety Certifications				
Certifications	CB, CE LVD	CB, CE LVD,	CB, CE LVD,	CB, CE LVD,

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

Warranty and Support*	GS305v3	GS308v3	GS324v2	GS348
All Except China		3-year Warranty		
China		1-year Warranty		
Technical Support (online, phone)		90 days free from date of purchase*		

NETGEAR®
BUSINESS

ProSUPPORT Category		Category S1	Category S1	Category S2	Category S2
ProSUPPORT OnCall 24x7 Service Plans					
	1 yr	PMB0S11-	PMB0S11-	PMB0S12-	PMB0S12-
	3 yrs	10000S	10000S	10000S	10000S
	5 yrs	PMB0S31-	PMB0S31-	PMB0S32-	PMB0S32-
Package Content		10000S	10000S	10000S	10000S
		PMB0S51-	PMB0S51-	PMB0S52-	PMB0S52-
		10000S	10000S	20000S	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 and Korea
GS305-300UKS	United Kingdom
GS308	
GS308-300JPS	Japan
GS308-300PAS	North America
GS308-300PES	Europe
GS308-300PRS	China
GS308-300UKS	United Kingdom

GS324	
GS324-100AUS	Australia
GS324-100EUS	Europe, including United Kingdom
GS324-100INS	India
GS324-100JPS	Japan
GS324-100NAS	North America
GS324-100PRS	China
GS348	
GS348-100AJS	Japan and Australia
GS348-100EUS	Europe, including United Kingdom
GS348-100NAS	North America