

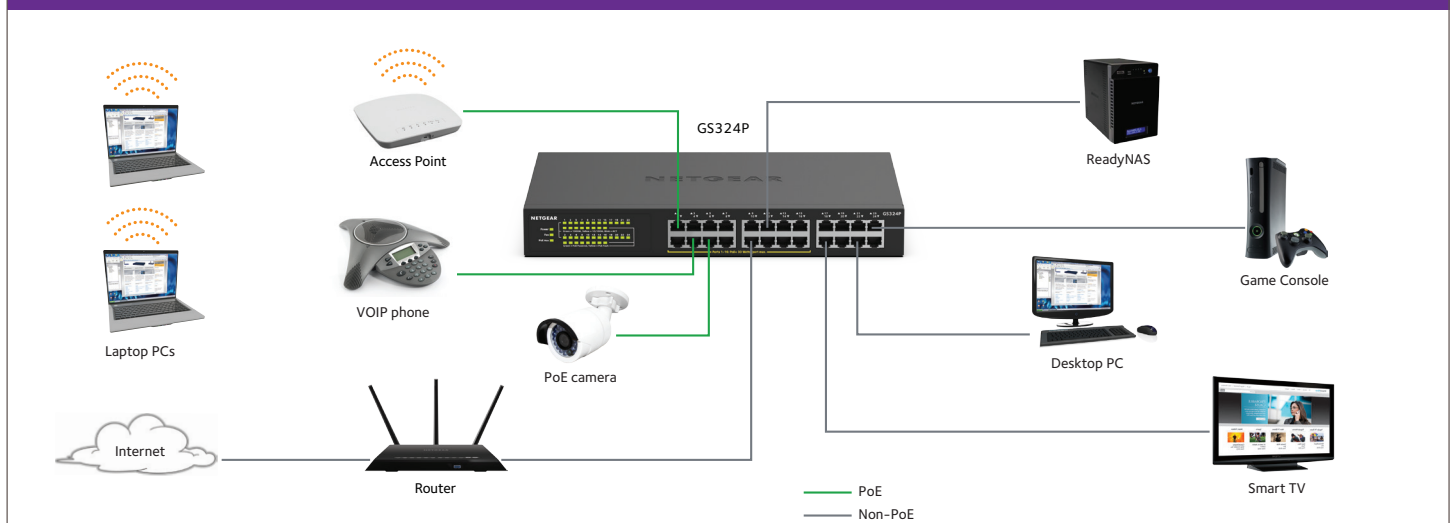
## Take Gigabit to the Desktop and Expand Wired Connectivity

NETGEAR 300 Series Gigabit Ethernet Unmanaged Switches provide easy, reliable, and affordable network connectivity for small and medium offices. With these unmanaged plug-and-play switches, you can expand your network connections to multiple devices instantly. The GS324P/GS324PP and GS348PP with Power-over-Ethernet (PoE) provides power and data from a single Ethernet 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.

### Highlights

- Auto-MDI/MDIX eliminates the need for crossover cables
- LED indicators for ease of use
- Energy-efficient technology for power savings
- 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
- Plug-and-play; no setup required
- Durable and rugged metal case
- Flexible rack mount/desktop mounting options
- Ideal for small and medium offices
- Standards-based technology ensures interoperability with any standards-based devices in the existing network
- Power up to 30W per device
- Desktop and rackmountable
- 802.3at Power Over Ethernet (PoE) for IP cameras, VoIP/Internet-based phones, wireless access points
- NETGEAR's unique PoE power auto-balance and allocation technology automatically balances the PoE power based on the device needs independent of PoE class detected

### NETWORK DIAGRAM



Features	GS324P	GS324PP	GS348PP
10/100/1000Mbps Ports (Auto Uplink)	24	24	48
Enclosure	Metal	Metal	Metal
Connector Type	Metal	Metal	Metal
Form Factor	Rack mount/ Desktop	Rack mount/ Desktop	Rack mount/ Desktop
Power On/Off Switch	NA	NA	NA
<b>Performance Specification</b>			
Bandwidth (Non-Blocking)	48 Gbps	48 Gbps	96Gbps
Packet Buffer Memory (Dynamically shared across only used ports)	192 KB	192 KB	1.5MB
Jumbo Frame Support	10000 bytes	10000 bytes	12288 bytes
Queue WRR (Weighted Round Robin) Ratio	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
Latency (using 64-byte packets) - 1000Mbps Port (average)	< 4 µsec	< 4 µsec	< 4 µsec
MAC Address Table Size	8K	8K	8K
Auto MDI/MDI-X Cable Detection	Yes	Yes	Yes
Auto-sensing Half/Full Duplex Switched Ports	Yes	Yes	Yes
Mean Time Between Failures (MTBF) @ 25° C	1,193,574 hours	667,762 hours	570,972 hours
<b>LEDs</b>			
Per port	Speed, Link/Activity, PoE	Speed, Link/Activity, PoE	Speed, Link/Activity, PoE
Per device	Power, PoE Max, Fan	Power, PoE Max, Fan	Power, PoE Max, Fan
<b>Quality Of Service (QOS)</b>			
802.1P Based (CoS) Supported	Yes	Yes	Yes
Honors DSCP (DiffServ) Tags	Yes	Yes	Yes
<b>POE Configuration</b>			
802.3at PoE Ports	16	24	24
PoE Max Power Per Port	30W	30W	30W
Total PoE Power Budget <sup>1</sup>	190W	380W	380W
<b>Power Consumption</b>			
DC Input/Power In	Internal (100-240VAC, 50/60Hz, 3A max)	Internal (100-240VAC, 50/60Hz, 8A max)	Internal (AC: 110-240V, 50/60Hz, 8A max)
Power Consumption (Max and Standby)	210W/10W	400W / 10W	410W/10W
Heat Dissipation (Max and Standby) (BTU/Hr)	718.2BTU/34.2BTU	1368BTU/34.2BTU	1402.2BTU/34.2BTU
<b>Energy Efficiency</b>			
Energy Efficient Ethernet (EEE) IEEE 802.3az compliant	Yes	Yes	Yes
Auto Power Down	Yes	Yes	Yes
Short Cable Detection	Yes	Yes	Yes
Fan/Fanless	1 Fan	2 Fans	2 Fans

Physical Specifications	GS324P	GS324PP	GS348PP
Dimensions (W x D x H)	330 x 206 x 43 mm (13 x 8.1 x 1.7 in.)	440 x 204 x 43 mm (17.3 x 8 x 1.7 in.)	440 x 310 x 43 mm (17.3 in. x 12.2 in. x 1.7 in.)
Weight	2.44 kg (5.38 lb)	3.30 kg (7.3 lb)	4.56kg (10.05 lb)
Environmental Specifications			
Operating			
Operating Temperature	0° to 45°C (32° to 113°F)		
Humidity	10%-90% relative humidity, noncondensing		
Altitude	3000 M		
Storage			
Storage temperature	-20 ~ +70 degree C		
Humidity (relative)	10%~95%, non-condensing		
Electromagnetic Emissions and Immunity			
Certifications	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	CE Mark, FCC Part 15 Class A, IC Class A, RCM, VCCI, KC
Safety			
Certifications	CB, CE LVD, UL	CB, CE LVD, UL	CB, CE LVD, UL
IEEE Network Protocols			
<ul style="list-style-type: none"> <li>• IEEE 802.3ab 1000BASE-T Gigabit Ethernet</li> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet</li> <li>• IEEE 802.3i 10BASE-T Ethernet</li> <li>• IEEE 802.3 CSMA/CD</li> <li>• 802.3az Energy Efficient Ethernet</li> </ul>			
Warranty and Support*			
All Except China	3-year warranty		
Technical Support (online, phone)	90 days free from date of purchase*		
ProSUPPORT OnCall 24x7 Service Plans	PMB0S12-10000S (1 yr) PMB0S32-10000S (3 yrs) PMB0S52-10000S (5 yrs)	PMB0S12-10000S (1 yr) PMB0S32-10000S (3 yrs) PMB0S52-10000S (5 yrs)	PMB0S12-10000S (1 yr) PMB0S32-10000S (3 yrs) PMB0S52-10000S (5 yrs)

Actual SKU availability may vary per region. Please check the local website for product availability.

## Package Content

All Models	Unmanaged Gigabit Ethernet PoE+ Switch Power cord (localized to country of sale) Rack mount kit Desktop rubber feet Installation Guide
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## Ordering Information

### GS324P

GS324P-100NAS North America and Asia Pacific

GS324P-100EUS Europe and United Kingdom

GS324P-100AJS Australia and Japan

### GS324PP

GS324PP-100NAS North America and Asia Pacific

GS324PP-100EUS Europe and United Kingdom

GS324PP-100AJS Australia and Japan

### GS348PP

GS348PP-100NAS North America and Asia Pacific

GS348PP-100EUS Europe and United Kingdom

GS348PP-100AJ Australia and Japan

\*This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies - not software or external power supplies; see <http://www.netgear.com/about/warranty/> for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.

\*\*The NETGEAR OnCall 24x7 contract provides unlimited phone, chat and email technical support for your networking product.

<sup>1</sup> Maximum PoE power supplied is 30W per port, but not to exceed total power budget supplied across all PoE connected devices.

<sup>†</sup> 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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