# NETGEAR®

## Smart Managed Plus Gigabit Ethernet Switches

#1
IN UNMANAGED, WEB,
& SMART SWITCHES¹

¹ In US & Europe Market Share
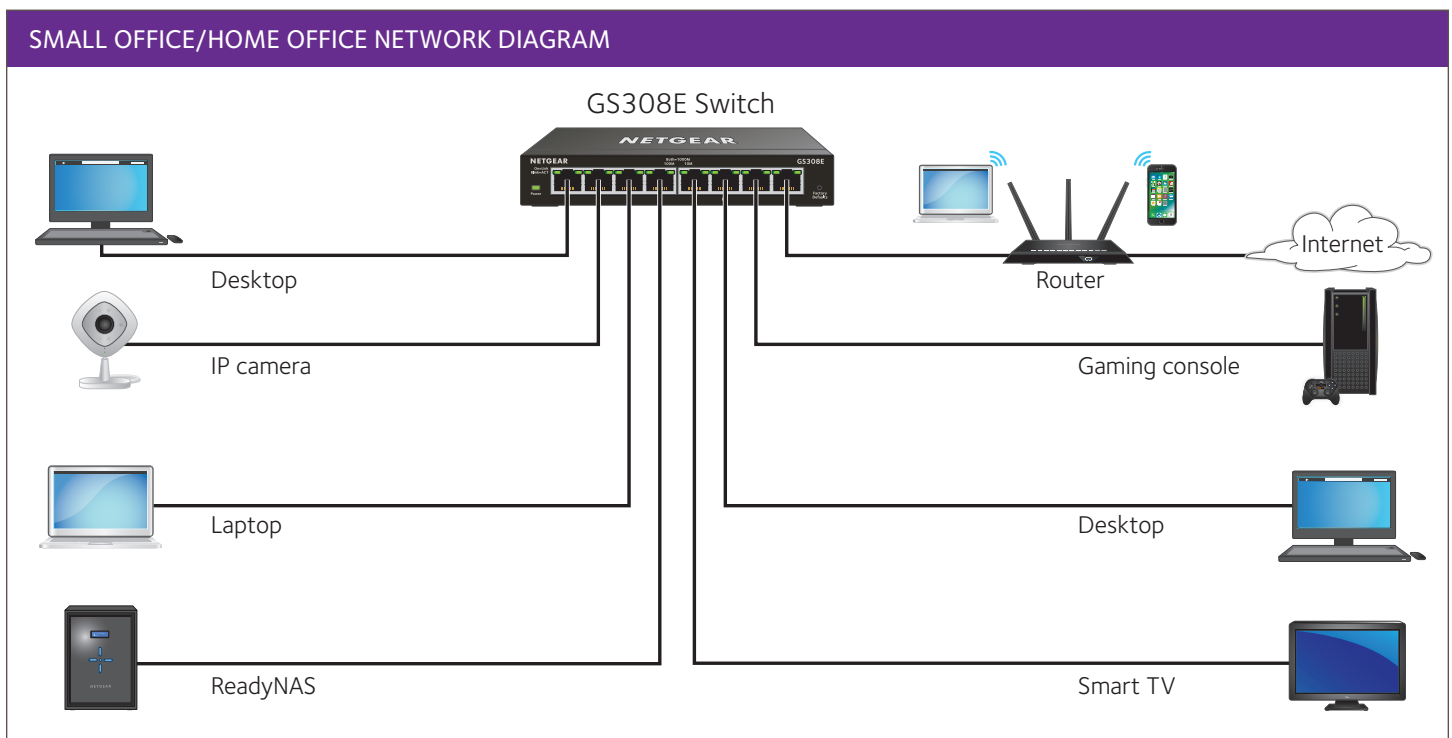according to NPD and Context, August 2018

## Expanding Wired Connectivity for SOHO Networks

NETGEAR ® Smart Managed Plus Switches meet this growing need by providing fundamental network features such as VLANs, QoS, and IGMP Snooping that will help optimize the performance of business networks.  Smart Managed Plus Switches are the perfect upgrade from the plug-and-play unmanaged switch, delivering essential networking features at a very affordable price.

- Enable network configuration and management at the price point of Unmanaged Switches

- Simple, yet useful network set-up on top of plug-and-play connectivity

- Flexible management via easy-to-use web browser-based management GUI or using the PC-based Utility application

- VLAN support for traffic segmentation

- Quality of Service (QoS) for traffic prioritization

- Auto "denial-of-service" (DoS) prevention

- Troubleshoot connection issues via cable test

- Loop detection and broadcast storm controls

- Rate limiting for better bandwidth allocation

- Port mirroring for network monitoring

- Jumbo frame support

### SMALL OFFICE/HOME OFFICE NETWORK DIAGRAM

## GS300 Series Comparison

| Features | GS305E | GS308E |
|---|---|---|
| |  |  |
| Gigabit ports | 5 | 8 |
| Max MAC entries | 8K | 4K |
| Buffer Size | 128KB | 192KB |
| Energy Efficient Ethernet (IEEE 802.3az) compliant | Yes | Yes |
| PERFORMANCE SPECIFICATIONS | | |
| Forwarding modes | Store-and-forward | |
| Bandwidth | 10Gbps | 16Gbps |
| Priority queuing | Weighted Round Robin (WRR), Strict Priority, or both | |
| Jumbo frame support | Up to 9K packet size | |
| Acoustic noise level @ 25° C (dBA) (ANSI-S10.12) | 0 | 0 |
| Mean Time Between Failures (MTBF) @ 25° C | 2,531,294 hours | 1,638,156 hours |
| L2 SERVICES – VLANS | | |
| VLAN (# Supported) | 64 | 32 |
| IEEE 802.1Q  VLAN Tagging | Yes | Yes |
| Port-based VLANs | Yes | Yes |
| L2 Services – AVAILABILITY | | |
| Link Aggregation/ Port Trunking | No | No |
| Number of Static  Manual LAGs and  # of members | N/A | N/A |
| L2 SERVICES – MULTICAST FILTERING | | |
| IGMP snooping (v1, v2, and v3) | Yes | |
| Block unknown multicast | Yes | |
| Supported Multicast groups | 128 | 128 |
| L3 SERVICES – DHCP | | |
| DHCP client | Yes | |
| QUALITY OF SERVICE (QOS) | | |
| Rate Limiting | Yes | |
| DSCP | Yes | No |
| IEEE 802.1p COS | Yes | |
| Port-based VLAN | Yes | |
| TOS | Yes | No |
| WRR (Weighted Round Robin) | Yes | |
| Strict Priority queue technology | Yes | |

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| Features | GS305E | GS308E |
|---|---|---|
| IEEE STANDARDS SUPPORTED | | |
| • IEEE 802.3 Ethernet<br>• IEEE 802.3ab 1000BASE–T<br>• IEEE 802.3u 100BASE–T<br>• IEEE 802.3ab 1000BASE–T | • EEE 802.1p Class of Service<br>• IEEE 802.1Q VLAN Tagging<br>• IEEE 802.3x Full–duplex Flow Control | |
| MANAGEMENT | | |
| System Password | Yes | |
| Web browserbased management GUI | Yes | |
| PC Utility | Yes | |
| Port Mirroring | Yes | |
| Max number of source ports allowed (many-to-one port mirroring) | 4 | 7 |
| Many-to-one Port Mirroring | Yes | |
| Cable Test Utility | Yes | |
| FW Upgrade Thru Plus Utility (TFTP) | Yes | |
| Config download (to Switch) thru Plus Utility | Yes | |
| Config upload (to server) | Yes | |
| LEDS | | |
| Per port | Speed, Link, Activity | |
| Per device | Power, system | |
| PHYSICAL SPECIFICATIONS | | |
| Dimensions (W x D x H) | 94 x 100 x 27 mm<br>(3.7 x 3.9 x 1.1 in) | 158 x 101 x 29 mm<br>(6.2 x 4 x 1.1 in) |
| Weight | 0.25kg | 0.5kg |
| ENVIRONMENTAL SPECIFICATIONS | | |
| **Operating** | | |
| Operating temperature | 32° to 122°F (0° to 50°C) | 0° to 40°C |
| Humidity (relative) | 90% maximum relative humidity (RH), non-condensing | |
| Altitude | 10,000 ft (3,000 m) maximum | |
| **Storage** | | |
| Storage temperature | – 4° to 158°F (–20° to 70°C) | |
| Humidity (relative) | 95% maximum relative humidity (RH), non-condensing | |
| Altitude | 10,000 ft (3,000 m) maximum | |
| ELECTROMAGNETIC EMISSIONS AND IMMUNITY | | |
| Certifications | CE mark, commercial<br>FCC Part 15 class B<br>CE/EN55032/24<br>VCCI<br>ACMA | |

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| Features | GS305E | GS308E |
|---|---|---|
| WARRANTY AND SUPPORT | | |
| All Except China | 3-year warranty | |
| China | 1-year warranty | |
| Technical Support (online, phone) | 90 days free from date of purchase* | |
| ProSUPPORT OnCall 24x7 Service Plans | Category S1: PMB0S11-10000S PMB0S31-10000S PMB0S51-10000S | |

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