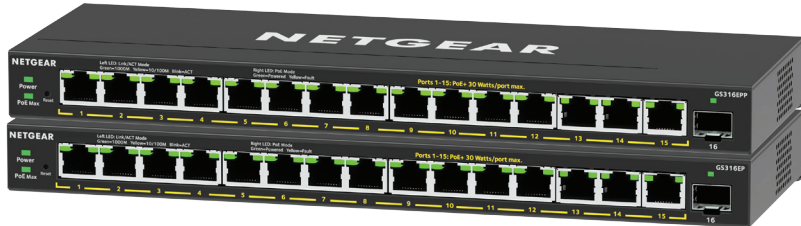


Control and Configure Beyond Plug-and-Play

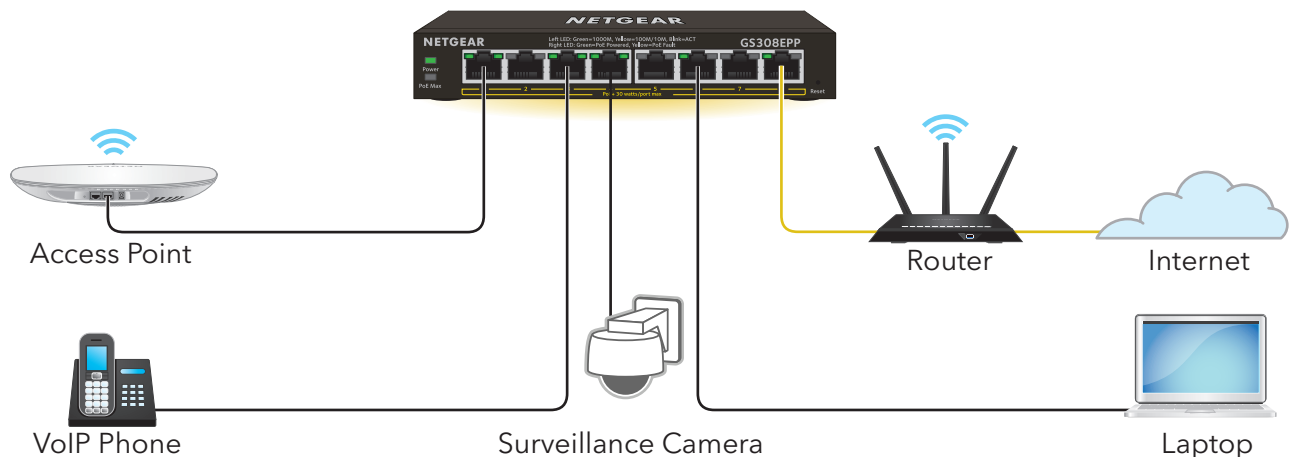


NETGEAR Plus Switches with PoE meets business networks growing need by providing fundamental network features such as simplified VLANs, QoS set-up and IGMP Snooping that will help optimize the performance of business networks. Plus Switches are the perfect upgrade from the plug-and-play unmanaged switch, delivering essential networking features at a very affordable price. These models support Power-Over-Ethernet (PoE) and can power devices such as VOIP phones, surveillance IP cameras, wireless access points and many other applications. These new PoE+ Gigabit Ethernet Plus switches models include uninterruptible PoE to help optimize the performance and troubleshooting of business networks. The new and improved business-friendly GUI allows easy management and simple configuration. With the growing deployment of applications and an all-in-one solution, providing management and power to these applications would be ideal.

Highlights

- 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
- Business-friendly and easy-to-use web browser-based management GUI
- 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 prevention¹, loop detection², and broadcast storm controls
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Jumbo frame support
- Advanced features such as per port PoE controls
- Uninterrupted PoE keeps PoE power on even when the switch is updating firmware or performing software reboot.
- 802.3at standard offering 30W/port
- Fanless and versatile mounting option (desktop and wall-mountable)

Small Office/Home Office Network Diagram



¹ Applies to GS316EP, GS316EPP

² Applies to GS305EP, GS305EPP, GS308EP, GS308EPP

Technical Specifications

| Features | GS305EP | GS305EPP | GS308EP | GS308EPP | GS316EP | GS316EPP |
|--|-------------------|-------------|-------------|-------------|--------------|--------------|
| 10/100/1000 RJ45 Copper Ports (Auto Uplink) | 5 | 5 | 8 | 8 | 16 | 16 |
| Enclosure | Metal | Metal | Metal | Metal | Metal | Metal |
| Connector Type | Metal | Metal | Metal | Metal | Metal | Metal |
| PoE | | | | | | |
| # of PoE ports | 4 | 4 | 8 | 8 | 15 | 15 |
| # PoE+ 802.3at Ports | 4 | 4 | 8 | 8 | 15 | 15 |
| SFP ports | 0 | 0 | 0 | 0 | 1 | 1 |
| Total PoE/PoE+ Budget | 63W | 120W | 62W | 123W | 180W | 231W |
| Advanced PoE Controls | Yes | Yes | Yes | Yes | Yes | Yes |
| PoE Scheduling | No | No | No | No | Yes | Yes |
| Uninterrupted PoE | Yes | Yes | Yes | Yes | Yes | Yes |
| Performance Specification | | | | | | |
| Forwarding modes | Store-and-forward | | | | | |
| Bandwidth | 10Gbps | 10Gbps | 16Gbps | 16Gbps | 32Gbps | 32Gbps |
| Max MAC entries | 4K | 4K | 4K | 4K | 4K | 4K |
| Buffer Size | 192KB | 192KB | 192KB | 192KB | 192KB | 192KB |
| Energy Efficient Ethernet (IEEE 802.3az) compliant | Yes | Yes | Yes | Yes | Yes | Yes |
| Priority queuing | WRR | WRR | WRR | WRR | WRR | WRR |
| Jumbo frame support | 9,216 bytes | 9,216 bytes | 9,216 bytes | 9,216 bytes | 10,000 bytes | 10,000 bytes |
| Acoustic noise level @ 25° C (dBA) (ANSI-S10.12) | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean Time Between Failures (MTBF) @ 25° C | 1,164,104 hrs | 853,770 hrs | 859,126 hrs | 842,428 hrs | 784,742 hrs | 570,435 hrs |
| L2 Services - VLANs | | | | | | |
| VLAN (# Supported) | 64 | 64 | 64 | 64 | 64 | 64 |
| IEEE 802.1Q VLAN Tagging | Yes | Yes | Yes | Yes | Yes | Yes |
| Port-based VLANs | Yes | Yes | Yes | Yes | Yes | Yes |
| L2 Services - Availability | | | | | | |
| Link Aggregation/Port Trunking | Yes | Yes | Yes | Yes | Yes | Yes |
| Number of Static Manual LAGs and # of members | 2/4 | 2/4 | 2/4 | 2/4 | 8/8 | 8/8 |
| L2 Services - Multicast Filtering | | | | | | |
| IGMP snooping (v1, v2, and v3) | Yes | Yes | Yes | Yes | Yes | Yes |
| Block unknown multicast | Yes | Yes | Yes | Yes | Yes | Yes |
| Supported Multicast groups | 128 | 128 | 128 | 128 | 128 | 128 |
| L3 Services - DHCP | | | | | | |
| DHCP client | Yes | Yes | Yes | Yes | Yes | Yes |
| Quality of Service | | | | | | |
| Rate Limiting | Yes | Yes | Yes | Yes | Yes | Yes |
| DSCP | Yes | Yes | Yes | Yes | Yes | Yes |
| IEEE 802.1p COS | Yes | Yes | Yes | Yes | Yes | Yes |
| Port-based VLAN | Yes | Yes | Yes | Yes | Yes | Yes |
| TOS | Yes | Yes | Yes | Yes | Yes | Yes |
| WRR (Weighted Round Robin) | Yes | Yes | Yes | Yes | Yes | Yes |
| Strict Priority queue technology | No | No | No | No | No | No |

Technical Specifications

| IEEE Network Protocols | GS305EP | GS305EPP | GS308EP | GS308EPP | GS316EP | GS316EPP |
|---|---|---|---|---|---|---|
| <ul style="list-style-type: none"> IEEE 802.3 Ethernet IEEE 802.3ab 1000BASE-T IEEE 802.3u 100BASE-T IEEE 802.1p Class of Service | <ul style="list-style-type: none"> IEEE 802.1Q VLAN Tagging IEEE 802.3x Full-duplex Flow Control IEEE 802.3af PoE IEEE 802.3at PoE+ | | | | | |
| Management | | | | | | |
| System Password | Yes | Yes | Yes | Yes | Yes | Yes |
| Web browserbased management GUI | Yes | Yes | Yes | Yes | Yes | Yes |
| PC Utility | No | No | No | No | No | No |
| Port Mirroring | Yes | Yes | Yes | Yes | Yes | Yes |
| Max number of source ports allowed (one-to-one port mirroring) | 1 | 1 | 1 | 1 | 1 | 1 |
| Many-to-one Port Mirroring | Yes | Yes | Yes | Yes | Yes | Yes |
| Cable Test Utility | Yes | Yes | Yes | Yes | Yes | Yes |
| FW Upgrade Thru Plus Utility (TFTP) | No | No | No | No | No | No |
| Config download (to Switch) thru Plus Utility | No | No | No | No | No | No |
| Config upload (to server) | Yes | Yes | Yes | Yes | Yes | Yes |
| LEDs | | | | | | |
| Per port | Speed, Link, Activity, PoE | | | | | |
| Per device | Power, System, PoE Max | | | | | |
| Physical Specifications | | | | | | |
| Dimensions (W x D x H) | 158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in) | 158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in) | 158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in) | 158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in) | 286 x 102 x 27 mm (11.26 x 4.02 x 1.06 in) | 286 x 102 x 27 mm (11.26 x 4.02 x 1.06 in) |
| Weight | 0.39 kg (0.86 lb) | 0.40 kg (0.88 lb) | 0.49 kg (1.08 lb) | 0.49 kg (1.08 lb) | 0.883 kg (1.95 lb) | 0.883 kg (1.95 lb) |
| Environmental Specifications | | | | | | |
| Operating | | | | | | |
| Operating temperature | 32° to 104°F (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 | | | | | |

Technical Specifications

| Electromagnetic Emissions and Immunity | GS305EP | GS305EPP | GS308EP | GS308EPP | GS316EP | GS316EPP |
|--|------------------------------|------------------------------|------------------------------|---|-----------------------------|-----------------------------|
| Certifications | | | | CE mark, commercial FCC Part 15 class B CE/EN55032/24 VCCI ACMA CSA safety KC BSMI | | |
| Warranty and Support | | | | | | |
| Hardware Warranty (All Except China/India) | | | | 5-year warranty | | |
| China/India | | | | 1-year warranty | | |
| External Power Adapter Warranty | | | | 2-year warranty | | |
| Technical Support (online, phone) | | | | 90 days free of Technical Support with registration | | |
| ProSUPPORT OnCall 24x7 Service Plans | Category S1 PMB0S11-1000S | Category S1 PMB0S11-1000S | Category S1 PMB0S11-1000S | Category S1 PMB0S11-1000S | Category 1 PMB0311-1000S | Category 1 PMB0311-1000S |
| | PMB0S31-1000S | PMB0S31-1000S | PMB0S31-1000S | PMB0S31-1000S | PMB0331-1000S | PMB0331-1000S |
| | PMB0S51-1000S | PMB0S51-1000S | PMB0S51-1000S | PMB0S51-1000S | PMB0351-1000S | PMB0351-1000S |
| Package Contents | | | | | | |
| All Models | | | | NETGEAR Plus Switch Power adapter (power cable varies by region) Wall installation kit Rubber feet Installation guide | | |
| Optional Modules, Software Licenses and Accessories (For GS316EP and GS316EPP only) | | | | | | |
| AGM731F | | | | FP Transceiver 1000BASE-SX (Short range, multimode) | | |
| AGM732F | | | | SFP Transceiver 1000BASE-LX (Long range, single mode) | | |
| AGM734-1000S | | | | SFP Transceiver 1000BASE-T Copper RJ45 GBIC | | |

*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.

†NETGEAR #1 in US Market Share according to NPD data for Unmanaged and Smart Switches, September 2019. NETGEAR #1 in Europe Market Share according to Context data for Unmanaged and Smart Switches, September 2019.

The use of the proper type of cable is required for optimum performance. Please consult this Knowledge Base article for more information: www.netgear.com/cables

NETGEAR and the NETGEAR Logo are trademarks of NETGEAR, Inc. in the United States and/or other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Information is subject to change without notice. ©NETGEAR, Inc. All Rights reserved.