

## 8-port and 16-port Gigabit Ethernet Unmanaged PoE/PoE+ Switches



### Outstanding Power with Flexible Placement

The NETGEAR® Gigabit Unmanaged Switch series helps businesses cost-effectively increase power budget to expand their network.

Powered by the industry's first flexible PoE+ integrated technology, you can increase or decrease the PoE budget by simply buying a new power supply, effectively futureproofing small business networks and budgets.

All ports support PoE/PoE+ that makes them the perfect switches for deploying Wireless APs, Pan/Tilt/Zoom and fixed IP Cameras, VoIP Phones, access-limited security door locks or any other IoT PoE-powered devices.

The GS108LP, GS108PP, GS116LP and GS116PP Gigabit Ethernet switches come with 8 and 16 Gigabit copper ports in a desktop metal case.

The small form factor combined with the rack-mount and wall-mount accessories give you the flexibility to place these switches in small cabinets, in a 19" rack, on a wall or on your desk.

### Highlights



#### All ports Support PoE+

All ports are able to provide up to 30W per port to any power-hungry device (PTZ cameras, PoE Lights, PD Switches, Access Points, more)



#### Flexible PoE Budget

NETGEAR's exclusive FlexPoE with interchangeable external power adapters allow you to increase (or decrease) your PoE budget as your needs change.  
GS108LP/GS108PP: 60W, 83W, 123W PoE Budget  
GS116LP/GS116PP: 76W, 115W, 183W PoE Budget



#### Flexible mounting options

Adapts to your needs and configuration in any environment. Desktop, wall-mount, or rack-mount with included mounting kits.



#### Compact, fanless, silent design

Small form-factor, fanless design for silent operation. Perfect for noise-sensitive environments.

### Hardware at a Glance

| Model Name | Form-Factor                | 10/100/1000 Base-T RJ45 ports | PoE/PoE+ 802.3af/ 802.3at Ports | PoE Budget/PSU                | LEDs                            | PSU Supported/ PoE Budget                | Fans    |
|------------|----------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|--|---------|
| GS108LP    | Desktop, wall & rack mount | 8                             | 8                               | PoE Budget: 60W<br>PSU: 67.5W | Power, Port Link/Speed/Activity | PSU: 67.5W/90W/130W<br>PoE: 60W/83W/123W | Fanless |
| GS108PP    | Desktop, wall & rack mount | 8                             | 8                               | PoE Budget: 123W<br>PSU: 130W | Power, Port Link/Speed/Activity | PSU: 67.5W/90W/130W<br>PoE: 60W/83W/123W | Fanless |
| GS116LP    | Desktop, wall & rack mount | 16                            | 16                              | PoE Budget: 76W<br>PSU: 90W   | Power, Port Link/Speed/Activity | PSU: 90W/130W/200W<br>PoE: 76W/115W/183W | Fanless |
| GS116PP    | Desktop, wall & rack mount | 16                            | 16                              | PoE Budget: 183W<br>PSU: 200W | Power, Port Link/Speed/Activity | PSU: 90W/130W/200W<br>PoE: 76W/115W/183W | Fanless |



#### GS108LP/GS108PP

- 8 x Gig Copper Ports
- 8 x 802.3af/802.3at Ports
- Desktop, Wall-mount and 19-inch Rackmountable
- Small Form Factor



#### GS108LP/GS108PP rear

- Interchangeable External Power Supply



#### GS116LP/GS116PP

- 16 x Gig Copper Ports
- 16 x 802.3af/802.3at Ports
- Desktop, Wall-mount and 19-inch Rackmountable
- Small Form Factor

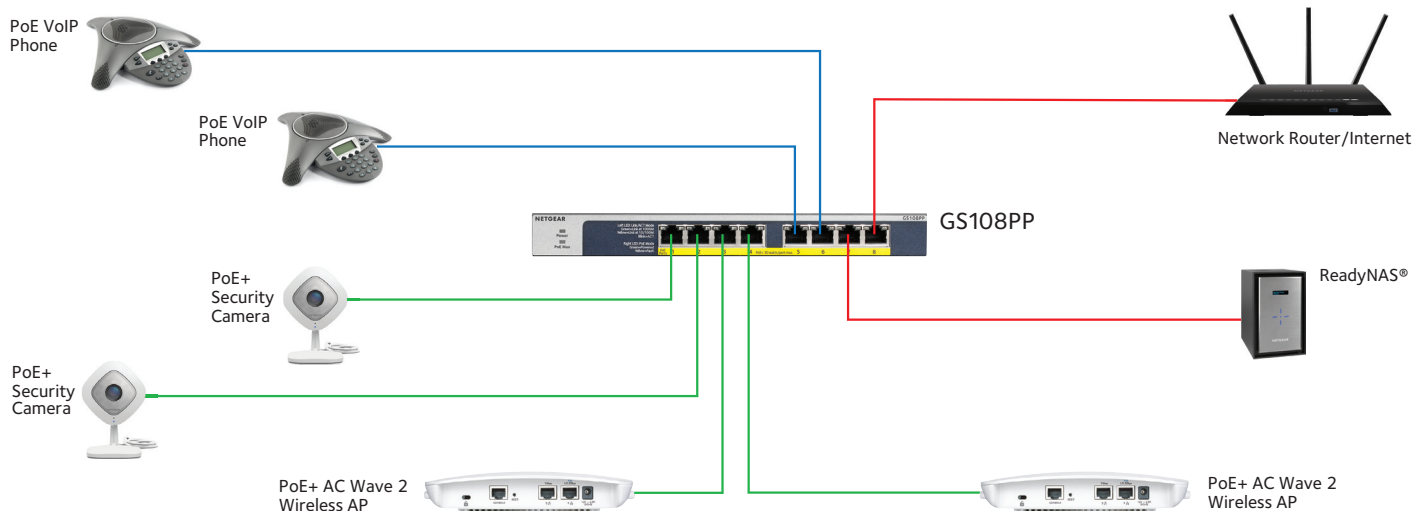


#### GS116LP/GS116PP rear

- Interchangeable External Power Supply

### Example Application

#### GS108LP/GS108PP in a Business Environment



#### GS108LP/GS108PP in a Business Environment

The following table describes the PoE classes and switch allocations.

| Device Class | Standard     | Class Description    | Minimum Power Allocated to the Powered Device | Range of Power Delivered to the Powered Device |
|--------------|--------------|----------------------|---|--|
| 0            | PoE and PoE+ | Default power (full) | 0.44W   | .044W - 12.95W                                 |
| 1            | PoE and PoE+ | Very low power       | 4.0W  | 0.44W - 3.84W                                  |
| 2            | PoE and PoE+ | Low power            | 7.0W  | 3.84W - 6.49W                                  |
| 3            | PoE and PoE+ | Mid power            | 15.4W   | 6.49W - 12.95W                                 |
| 4            | PoE+ only    | High power           | 30.0W   | 12.95W - 25.5W                                 |

### Why the NETGEAR PoE/PoE+ Switches are ideal for SMB

- Upgradable PoE budget with interchangeable power supplies
- Small form factor and silent for quiet operation
- Plug-and-play, automatic connectivity to your router or modem
- Prioritize voice and video traffic
- Lifetime Warranty\* plus lifetime online support and lifetime Next Business Day (NBD) replacement

### Accessory Power Adapters


Increase or decrease your PoE budget anytime by simply upgrading your switch Power Supply, without having to purchase a new switch. Future-proof your PoE budget with GS108LP or GS116LP. And if you have power-hungry devices and directly need a high power PoE switch, buy GS108PP or GS116PP. This unique combination from NETGEAR Business makes these switches the most adaptive in the market.

The following table describes the Accessory Power Adapters which are sold separately:

| Switch Model                   | Power Adapter Model          | Power Adapter Wattage | PoE+ Power Wattage  |
|--------------------------------|------------------------------|-----------------------|---------------------|
| GS108LP<br>(Comes w/ 67.5W PA) | EPS90W<br>EPS130W            | 90W<br>130W           | 83W<br>123W         |
| GS108PP<br>(Comes w/ 130W PA)  | EPS90W<br>EPS130W            | 90W<br>130W           | 83W<br>123W         |
| GS116LP<br>(Comes w/ 90W PA)   | EPS90W<br>EPS130W<br>EPS200W | 90W<br>130W<br>200W   | 76W<br>115W<br>183W |
| GS116PP<br>(Comes w/ 200W PA)  | EPS90W<br>EPS130W<br>EPS200W | 90W<br>130W<br>200W   | 76W<br>115W<br>183W |

### Technical Specifications for Accessory Power Adapters

| Product                    | GS108LP                           | GS108PP | GS116LP | GS116PP |
|----------------------------|-----------------------------------|---------|---------|---------|
| Power Adapter Warranty     | 2-years                           |         |         |         |
| Technical Support          | 90 days of free technical support |         |         |         |
| ProSUPPORT Contract Option | No                                |         |         |         |
| Auto-applied contracts     | No                                |         |         |         |

| Technical Specifications                                       | GS108LP  | GS108PP  | GS116LP   | GS116PP   |
|--|--|--|---|---|
|  |   |  |  |  |
| Gigabit Ethernet RJ-45 Copper ports (10M/100M/1G) - 1000BASE-T | 8  |  | 16  |   |
| PoE/PoE+ ports   | 8 PoE+ (60W PoE budget)  | 8 PoE+ (123W PoE budget)   | 16 PoE+ (76W PoE budget)  | 16 PoE+ (183W PoE budget)   |
| Power Supply   | External Input 54V 1.25A (67.5W)   | External Input 54V 2.4A (130W)   | External Input 54V 1.66A (90W)  | External Input 54V 3.7A (200W)  |
| Power Supply Supported   | External Input 54V 2.4A (130W)<br>Input 54V 1.66A (90W)<br>Input 54V 1.25A (67.5W) |  | External Input 54V 3.7A (200W)<br>Input 54V 2.4A (130W)<br>Input 54V 1.66A (90W)    |   |
| Form Factor  | Desktop/Rackmount/Wall-Mount   |  |   |   |
| Product Specifications   |  |  |   |   |
| Gigabit Ports  | 8  |  | 16  |   |
| Max MAC entries  |  |  | 4K  |   |
| Buffer Size  | 192KB  |  | 1MB   |   |
| Energy Efficient Enthernet (IEEE 802.3az complaint)            |  |  | Yes   |   |
| PoE Support  |  |  |   |   |
| 802.3af  | Ports 1-8  |  | Ports 1-16  |   |
| 802.3at  | Ports 1-8  |  | Ports 1-16  |   |
| PoE Max Power Per Port   | Up to 15.4w for 802.3af and 30W for 802.3at  |  |   |   |
| Total PoE Power Budget   | 60W  | 123W   | 76W   | 183W  |
| Forwarding modes   | Store-and-forward  |  |   |   |
| Bandwidth  | 16Gbps   |  | 32Gbps  |   |
| Jumbo frame support  |  |  | Yes   |   |
| Acoustic noise (ANSI-S10.12)                                   |  |  | 0 (fanless)   |   |
| Mean Time Between Failures (MTBF)                              | 2,752,476 hours  |  | 2,088,514 hours   |   |
| Quality of Service (QOS)                                       |  |  |   |   |
| DSCP   |  |  | Yes   |   |
| IEEE 802.1p COS  |  |  | Yes   |   |
| Queue WRR Ratio  | 1:3:5:7:8:10:12:15 Weighted Fair Queue (WFQ)                                       |  |   |   |
| LEDs   |  |  |   |   |
| Per port   | Speed, Link, Activity, PoE   |  |   |   |
| Per device   | Power Status, PoE Max  |  |   |   |
|  |  |  |   |   |

## 8-port and 16-port Gigabit Ethernet Unmanaged PoE/PoE+ Switches

| IEEE Network Protocols  | GS108LP   | GS108PP                              | GS116LP   | GS116PP                              |
|---|---|--------------------------------------|---|--------------------------------------|
| <ul style="list-style-type: none"><li>• IEEE 802.3 Ethernet</li><li>• IEEE 802.3u 100BASE-TX</li><li>• IEEE 802.3ab 1000BASE-T</li><li>• IEEE 802.1p Class of Service</li></ul> | <ul style="list-style-type: none"><li>• IEEE 802.3az Energy Efficient Ethernet (EEE)</li><li>• IEEE 802.3i 10BASE-T Ethernet</li><li>• IEEE 802.3x Flow Control</li></ul> |                                      |   |                                      |
| Physical Specifications   |   |                                      |   |                                      |
| Dimensions (W x D x H)  | 236 x 102 x 27 mm<br>9.29 x 4.02 x 1.06 in  |                                      | 286 x 102 x 27 mm<br>11.26 x 4.02 x 1.06 in   |                                      |
| Weight  | 0.6 kg<br>(1.32 lb)   |                                      | 0.88 kg<br>(1.94 lb)  |                                      |
| Power Consumption   |   |                                      |   |                                      |
| Power Supply  | External<br>Input 54V 1.25A<br>(67.5W)  | External<br>Input 54V 2.4A<br>(130W) | External<br>Input 54V 1.66A<br>(90W)  | External<br>Input 54V 3.7A<br>(200W) |
| Power Supply Supported  | External<br>Input 54V 2.4A (130W)<br>Input 54V 1.66A (90W)<br>Input 54V 1.25A (67.5W)   |                                      | External<br>Input 54V 3.7A (200W)<br>Input 54V 2.4A (130W)<br>Input 54V 1.66A (90W) |                                      |
| Max power (worst case, all ports used, line-rate traffic) (Watts)   | 67.5W   | 130W                                 | 90W   | 200W                                 |
| Min power (link-down standby) (Watts)   | 1.08W   |                                      | 2.68W   |                                      |
| Heat Dissipation (max and min) (BTU/hr)   | 230.85 BTU/<br>3.69 BTU   | 444.6 BTU/<br>3.69 BTU               | 270.18 BTU/<br>9.18 BTU   | 680.58 BTU/<br>9.14 BTU              |
| Energy Efficient Ethernet (EEE) IEEE 802.3az  |   |                                      |   | Yes                                  |
| Short cable power reduction   |   |                                      |   | Yes                                  |
| Auto power-down   |   |                                      |   | Yes                                  |
| Fan(s)  | 0 (fanless)   |                                      |   |                                      |
| Environmental Specifications  |   |                                      |   |                                      |
| Operating   |   |                                      |   |                                      |
| Operating Temperature   | 0° to 50°C (32° to 122°F)   |                                      |   |                                      |
| Humidity  | 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  |                                      |   |                                      |
| Altitude  | 10,000 ft (3,000 m) maximum   |                                      |   |                                      |

| Electromagnetic Emissions and Immunity<br>Certifications | GS108LP | GS108PP   | GS116LP | GS116PP |
|--|---------|---|---------|---------|
| Certifications   |         | 47 CFR FCC Part 15, SubpartB, Class A<br>ICES-003:2016 Issue 6, Class A<br>ANSI C63.4:2014<br>55032:2012+AC:2013, Class A<br>EN 55024:2010<br>EN 61000-3-2:2014, Class A<br>EN 61000-3-3:2013<br>AS/NZS CISPR 32:2015, Class A<br>VCCI-CISPR 32:2016, Class A<br>KN 35<br>CNS 13438<br>Electromagnetic Compliance Class A |         |         |
| Safety Certifications                                    |         |   |         |         |
| Certifications   |         | CB, IEC 60950-1:2005(ed.2) + A1:2009 + A2:2013<br>UL/cUL Listed; UL60950-1, 2nd Ed. 2014; CAN/CSA C22.2 No. 60950-1-07, 2nd Ed.<br>2014<br>EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>AS/NZS 60950.1:2015<br>KN 32<br>CNS 14336-1  |         |         |
| Warranty and Support                                     |         |   |         |         |
|  |         | ProSAFE Lifetime Warranty   |         |         |
|  |         | Lifetime Online Technical Support*  |         |         |
|  |         | Lifetime Next-Business-Day (NBD) Replacement  |         |         |
| ProSUPPORT OnCall 24x7 Service Packs**                   |         | Category S2<br>PMB0S12 (1 yr)<br>PMB0S32 (3 yrs)<br>PMB0S52 (5 yrs)   |         |         |
| Package Contents   |         |   |         |         |
| All models   |         | NETGEAR Gigabit Ethernet PoE+ Unmanaged Switch<br>Power adapter (localized to the country of sale)<br>Wall installation kit & Rack-mount kit<br>Quick install guide   |         |         |

## 8-port and 16-port Gigabit Ethernet Unmanaged PoE/PoE+ Switches

### Ordering Information

|                |                                 |
|----------------|---------------------------------|
| GS108LP-100NAS | North America and Latin America |
| GS108LP-100EUS | Europe and United Kingdom       |
| GS108LP-100AJS | Asia Pacific and Australia      |
| GS108PP-100NAS | North America and Latin America |
| GS108PP-100EUS | Europe and United Kingdom       |
| GS108PP-100AJS | Asia Pacific and Australia      |
| GS116LP-100NAS | North America and Latin America |
| GS116LP-100EUS | Europe and United Kingdom       |
| GS116LP-100AJS | Asia Pacific and Australia      |
| GS116PP-100NAS | North America and Latin America |
| GS116PP-100EUS | Europe and United Kingdom       |
| GS116PP-100AJS | Asia Pacific and Australia      |

### Optional Modules and Accessories

|         |                             |
|---------|-----------------------------|
| EPS90W  | 90W External Power Adapter  |
| EPS130W | 130W External Power Adapter |
| EPS200W | 200W External Power Adapter |

\*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.

\*\* The NETGEAR OnCall 24x7 contract provides unlimited phone and email technical support for your networking product. For products purchased prior to 06/2014, also includes next business-day hardware replacement.

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