Manuals+ — User Manuals Simplified.

NETGEAR GS108PP Gigabit Ethernet Unmanaged PoE Switch Specifications And Datasheet

Contents

NETGEAR GS108PP Gigabit Ethernet Unmanaged PoE Switch
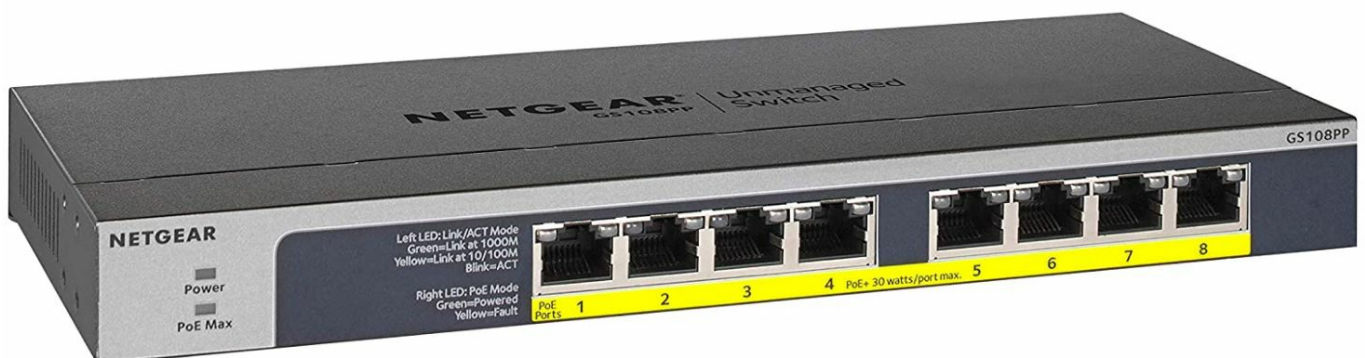
About Power

Outstanding Power with Flexible Placement

- The NETGEAR® Gigabit Unmanaged Switch series helps businesses cost-effectively increase power budgets 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+ which 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 gives 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, and more)

- **Flexible PoE Budget**
  NETGEAR's exclusive FlexPoE with interchangeable external power adapters allows 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

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

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

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 PSU: 67.5W	Power, Port Link/Speed/Activity	PSU: 67.5W/90W/130W PoE: 60W/83W/123W	Fanless
GS108PP	Desktop, wall & rack mount	8	8	PoE Budget: 123W PSU: 130W	Power, Port Link/Speed/Activity	PSU: 67.5W/90W/130W PoE: 60W/83W/123W	Fanless
GS116LP	Desktop, wall & rack mount	16	16	PoE Budget: 76W PSU: 90W	Power, Port Link/Speed/Activity	PSU: 90W/130W/200W PoE: 76W/115W/183W	Fanless
GS116PP	Desktop, wall & rack mount	16	16	PoE Budget: 183W PSU: 200W	Power, Port Link/Speed/Activity	PSU: 90W/130W/200W PoE: 76W/115W/183W	Fanless

Key Features

- 8 x Gig Copper Ports
- 8 x 3af/802.3at Ports
- Desktop, Wall-mount, and 19-inch Rackmountable
- Small Form Factor

Example Application
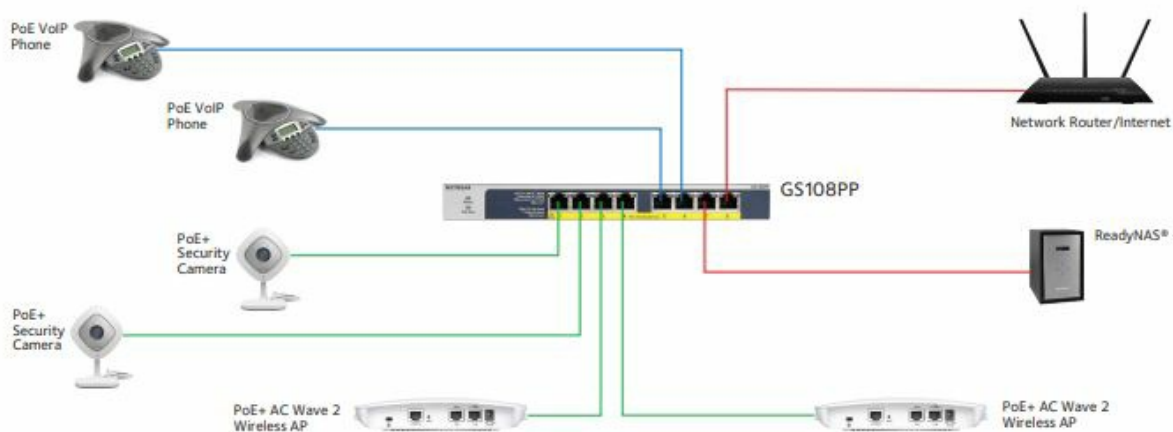
GS108PP in a Business Environment

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	0.44W – 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	EPS90W	90W	83W
(Comes w/ 67.5W PA)	EPS130W)	130W	123W
GS108PP	EPS90W	90W	83W
(Comes w/ 130W PA)	EPS130W	130W	123W
GS116LP (Comes w/ 90W PA)	EPS90W EPS130W EPS200W	90W 130W 200W	76W 115W 183W
GS116PP (Comes w/ 200W PA)	EPS90W EPS130W EPS200W	90W 130W 200W	76W 115W 183W

Technical Specifications

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) Input 54V 1.66A (90W) Input 54V 1.25A (67.5W)		External Input 54V 3.7A (200W) Input 54V 2.4A (130W) 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		2,362,192 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			

IEEE Network Protocols	GS108LP	GS108PP	GS116LP	GS116PP
• IEEE 802.3 Ethernet • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.1p Class of Service	• IEEE 802.3az Energy Efficient Ethernet (EEE) • IEEE 802.3i 10BASE-T Ethernet • IEEE 802.3x Flow Control			

Physical Specifications

	GS108LP	GS108PP	GS116LP	GS116PP
Dimensions (W x D x H)	236 x 102 x 27 mm 9.29 x 4.02 x 1.06 in		286 x 102 x 27 mm 11.26 x 4.02 x 1.06 in	
Weight	0.6 kg (1.32 lb)		0.88 kg (1.94 lb)	

Power Consumption

	GS108LP	GS108PP	GS116LP	GS116PP
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) Input 54V 1.66A (90W) Input 54V 1.25A (67.5W)		External Input 54V 3.7A (200W) Input 54V 2.4A (130W) 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)	1.23W		2.68W	
Heat Dissipation (max and min) (BTU/hr)	230.85 BTU/ 3.69 BTU	444.6 BTU/ 3.69 BTU	270.18 BTU/ 9.18 BTU	680.58 BTU/ 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 40°C (32° to 104°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 Certifications	GS108LP	GS108PP	GS116LP	GS116PP
Certifications	47 CFR FCC Part 15, SubpartB, Class A ICES-003:2016 Issue 6, Class A ANSI C63.4:2014 55032:2012+AC:2013, Class A EN 55024:2010 EN 61000-3-2:2014, Class A EN 61000-3-3:2013 AS/NZS CISPR 32:2015, Class A VCCI-CISPR 32:2016, Class A KN 35 CNS 13438 Electromagnetic Compliance Class A			

Safety Certifications

Certifications	CB. IEC 60950-1:2005(ed.2) + A1:2009 + A2:2013 UL/cUL Listed; UL60950-1, 2nd Ed. 2014; CAN/CSA C22.2 No. 60950-1-07, 2nd Ed. 2014 EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 AS/NZS 60950.1:2015 KN 32 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 PMB0S12 (1 yr) PMB0S32 (3 yrs) PMB0S52 (5 yrs)			

Package Contents

All models	NETGEAR Gigabit Ethernet PoE+ Unmanaged Switch Power adapter (localized to the country of sale) Wall installation kit & Rack-mount kit Quick install guide			

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/registratio**n within 90 days of purchase; see **https://www.netgear.com/about/warranty** for details. Intended for indoor use only.
- The NETGEAR OnCall 24×7 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. NETGEAR, the NETGEAR Logo and ProSAFE 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).
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FAQ's

What is the NETGEAR GS108PP Gigabit Ethernet Unmanaged PoE Switch?

The NETGEAR GS108PP is a Gigabit Ethernet unmanaged switch that supports Power over Ethernet (PoE) technology. It allows you to expand your network by providing additional Gigabit Ethernet ports, some of which can supply power to PoE-enabled devices.

How many ports does the GS108PP switch have?

The GS108PP switch comes with 8 Gigabit Ethernet ports, making it suitable for small to medium-sized networks.

Can I connect non-PoE devices to the GS108PP switch?

Yes, you can connect both PoE and non-PoE devices to the GS108PP switch. It automatically detects

whether a connected device supports PoE and supplies power accordingly.

Is the GS108PP switch fanless?

Yes, the GS108PP switch is fanless, ensuring silent operation and reduced power consumption.

Does the GS108PP switch support jumbo frames?

Yes, the GS108PP supports jumbo frames, which can improve data transfer performance for specific applications.

What are the supported data transfer speeds of the GS108PP switch?

The GS108PP switch supports Gigabit Ethernet, offering data transfer speeds of up to 1000 Mbps.

Can I mount the GS108PP switch on a wall or rack?

Yes, the GS108PP switch comes with a compact design and includes mounting options for wall or rack installation.

Does the GS108PP switch have any Quality of Service (QoS) features?

As an unmanaged switch, the GS108PP does not have advanced QoS features, but it can prioritize traffic based on the order of packet arrival.

Can I use the GS108PP switch with a PoE+ (802.3at) device?

Yes, the GS108PP switch supports both PoE (802.3af) and PoE+ (802.3at) devices, providing power accordingly.

Is the GS108PP switch energy-efficient?

Yes, the GS108PP switch is designed to be energy-efficient, with features like automatic power-saving mode and IEEE 802.3az Energy Efficient Ethernet (EEE) standard support.

References: [NETGEAR GS108PP Gigabit Ethernet Unmanaged PoE Switch – Device.report](#)