NETGEAR®

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

Data Sheet

GS108LP/GS108PP/GS116LP/GS116PP

GS108LP, GS108PP, GS116LP, GS116PP

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.

Key Highlights

All ports Support PoE+
All ports supports PoE+ and PoE being able to provide up to 30W per port to any power-hungry device (PTZ Cameras, PoE Lights, PD Switches, Access Points).

Flexible PoE Budget
Interchangeable External Power Supply. Increase or decrease your PoE Budget as needed.
GS108LP/GS108PP:
60W, 83W, 123W PoE Budget
GS116LP/GS116PP:
76W, 115W, 183W PoE Budget

Flexible mounting options
Adapts to your needs and configuration and configuration in any environment. Rackmount, wall or desktop mounting options.

Silent Design
Small form factor and silent for quiet operation makes it the ideal switch for noise-sensitive environments.

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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	LED's	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

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
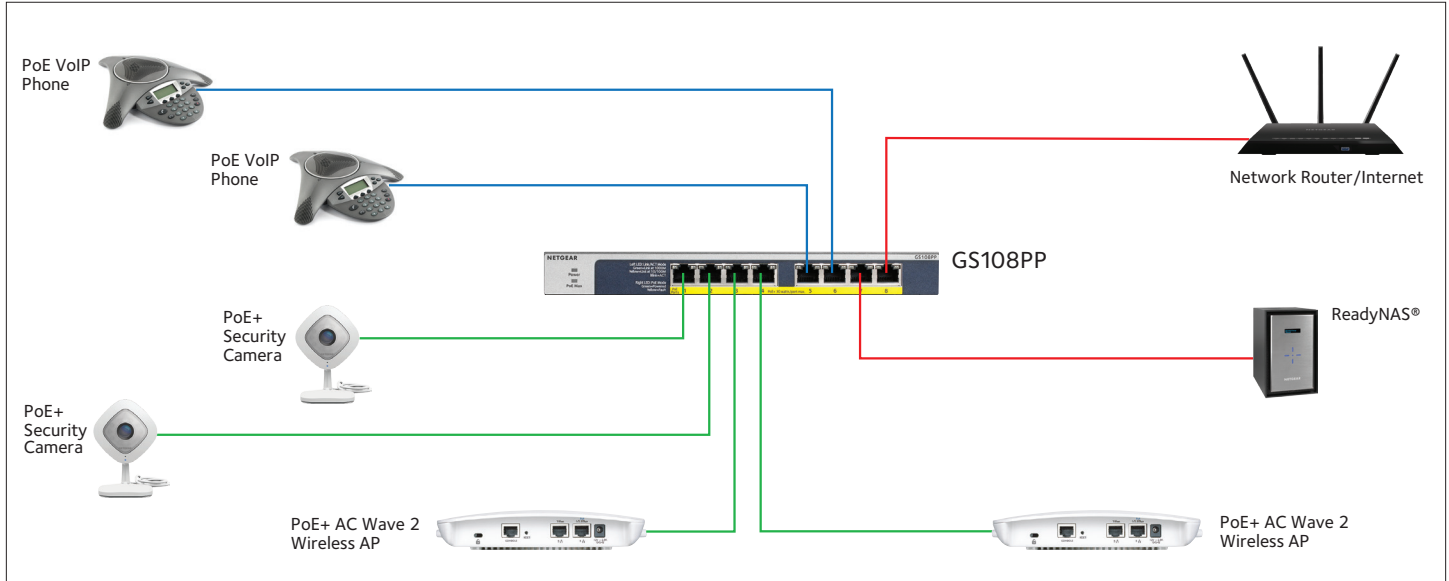- Desktop, Wall-mount and 19-inch Rackmountable
- Small Form Factor

GS116LP/GS116PP rear

- Interchangeable External Power Supply

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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

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GS108LP/GS108PP/GS116LP/GS116PP

Technical Specifications

PRODUCT	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 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)	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
PERFORMANCE SPECIFICATION				
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			

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GS108LP/GS108PP/GS116LP/GS116PP

Technical Specifications

PRODUCT	GS108LP	GS108PP	GS116LP	GS116PP
IEEE STANDARDS SUPPORTED				
	• 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				
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				
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 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)	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)	1.08W		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	95% maximum relative humidity (RH), non-condensing			
Altitude	10,000 ft (3,000 m) maximum			

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Technical Specifications

PRODUCT	GS108LP	GS108PP	GS116LP	GS116PP
ELECTROMAGNETIC EMISSIONS AND IMMUNITY				
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 or B)	Class A			
SAFETY				
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.)			

Ordering Information

PACKAGE CONTENT	
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