# 5-port, 8-port and 16-port Gigabit Ethernet Unmanaged Switches



# Instant Connectivity with Reliable Performance

The NETGEAR® Gigabit Unmanaged Switch series helps businesses costeffectively expand their network to Gigabit speeds and higher port counts. The GS105v5, GS108v4, and GS116v2 Gigabit Ethernet switches come with 5, 8, and 16 Gigabit copper ports in a desktop metal case and are wall-mountable. These switches are energy efficient, built to last, and rigorously tested to provide the reliability businesses need. 802.1p traffic prioritization and jumbo frame support allow for seamless integration with more sophisticated networks.

### Highlights

### **Plug and Play**

- The standards-based Gigabit switches sense and adjust for network speed and cabling type automatically. Easily integrate into your existing Ethernet network - no matter if it is running at 10/100Mbps or Gigabit speed
- Simple set up with no software or configuration needed
- Front panel LEDs keep you informed of power status, link speed and link activities

#### **Traffic Prioritization**

 Prioritize mission-critical applications such as voice and video Support IEEE 802.1 p and DSCP-based QoS for delivering data based on priority and type

### High Quality and Reliable Performance

- Superior network performance at nonblocking rate delivers true Gigabit speed with no compromise
- Durable metal case and long product life (shown by MTBF numbers)

### **Energy Efficient**

- GS105v5, GS108v4, and GS116v2 support the latest Energy Efficient Ethernet (IEEE 802.3az) standard, which reduces energy consumption when there is light traffic on an active port or when there is no link or no activity detected. It can further save energy when a short cable (<100m) is used. Energy savings lead directly to cost savings in operation.
- Silent, fanless design for energy efficiency and noise-sensitive environments

### Supports all Types of Networks

- Each port delivers up to 2000Mbps of network speed (full duplex)
- Supports jumbo frames up to 9K packets size on GS105v5 and GS116v2, up to 9,270 bytes on GS108v4
- Honors TOS/802.1p prioritization

#### **Limited Lifetime\* Warranty**

Industry's leading limited lifetime\*
 warranty, not only on hardware but also
 includes lifetime online support as well
 as next-business day (NBD) replacement
 support, providing customers peace of-mind using NETGEAR switches in
 their network.







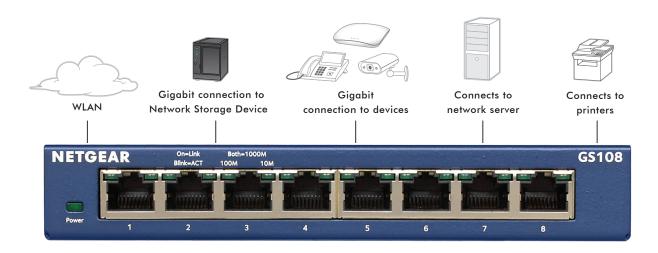


### Hardware at a Glance

		FRONT	REAR
Model Name	Form-Factor	10/100/1000 Base-T RJ45 ports	Power Supply
GS105	Desktop, Wall mount	5	External Power Adapter, 12V DC, 0.5A (6W)
GS108	Desktop, Wall mount	8	External Power Adapter, 12V DC, 0.5A (6W)
GS116	Desktop, Wall mount	16	External Power Adapter, 12V DC, 1A (12W)

# **Example Application**

### **SOHO Network Application**



# Why the NETGEAR Gigabit Ethernet Switch is ideal for SOHO Networks

- Superior Performance
- High Quality and Reliability
- Prioritize voice and video traffic
- Compact form-factor
- Fanless, silent and energy-efficient operation
- Lifetime Warranty\* plus lifetime online support and lifetime Next Business Day (NBD) replacement



# 5-port, 8-port and 16-port Gigabit Ethernet Unmanaged Switches

# **Technical Specifications**

Product Specifications         GS105v5         GS108v4         GS116v2           Gigabit prots         5         8         16           Max MAC entries         2K         4K         8K           Buffer size         128kB         192kB         256kB           Energy Efficient Enthemet (IEEE 802.3 ac complaint)         Yes         256kB           Performance Specification         Performance Specification         Ves         Yes           Performance Specification         5 to re-and-forward         Store-and-forward         Store-and-forward           Bandwidth         10 Gbps         16 Gbps         32 Gbps           Jumbo frame support         Up to 9K packet size         Up to 9K packet size         Up to 9K packet size           Acoustic noise (ANIS-IS10.12)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)           Mean Time Between Failures         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,562 hrs (9yrs)           MITER STANDARD (MDEPS)         100Mbps > 100Mbps > 100Mbps > 45 brs         100Mbps > 10M				
Max MAC entries         2K         4K         8K           Buffer size         128KB         192KB         256KB           Energy Efficient Enthemet (IEEE 802.3az complaint)         Yes         Yes         Yes           Performance Specification         Verson         Store-and-forward         Store-and-forward         Store-and-forward           Bandwidth         10 Gbps         16 Gbps         32 Gbps           Jumbo frame support         Up to 9K packet size         Up to 9K packet size         Up to 9K packet size           Acoustic noise (ANSI-S10.12)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)           Mean Time Between Failures (MTBF)         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,582 hrs (9 yrs)           Network latency (64 bytes)         1000Mbps ~ 1000Mbps < 26 us 1000Mbps ~ 1000Mbps < 16 us 1000Mbps < 1000Mbps	Product Specifications	GS105v5	GS108v4	GS116v2
Bulfer sizze         128KB         192KB         256KB           Energy Efficient Enthemet (IEEE 802.3az complaint)         Yes         Yes         Yes           Performance Specification         Performance Specification         Store-and-forward         Dd Bulk         Dd Bulk         Store-and-forward         Dd Bulk         Colletion         Colleties         Colleties<	Gigabit ports	5	8	16
Energy Efficient Enthernet (IEEE 802.3az complaint)         Yes         Yes         Yes           Performance Specification         Forwarding modes         Store-and-forward         Store-and-forward         Store-and-forward           Bandwidth         10 Gbps         16 Gbps         32 Gbps           Jumbo frame support         Up to 9K packet size         Up to 9K packet size         Up to 9K packet size           Acoustic noise (ANSI-S10.12)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)           Mean Time Between Failures (MTBF)         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,582 hrs (9 yrs)           Metwork latency (64 bytes)         1000Mbps ~> 1000Mbps: <2,6us 1000Mbps ~> 1000Mbps ~> 1000Mbps ~> 1000Mbps ~<1,6us 1000Mbps ~> 10	Max MAC entries	2K	4K	8K
(IEEE 802.3az complaint)         res         res           Performance Specification           Fornwarding modes         Store-and-forward         Store-and-forward         Store-and-forward           Bandwidth         10 Gbps         16 Gbps         32 Gbps           Jumbo frame support         Up to 9K packet size           Acoustic noise (ANSI-S10.12)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)           Mean Time Between Failures (MTBF)         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,582 hrs (9 yrs)           Network latency (64 bytes)         1000Mbps > 1000Mbps < 2,6 us         1000Mbps > 1000Mbps < 1,6 us         1000Mbps < 1,6 us           New         100Mbps > 1000Mbps < 3,0 us         1000Mbps > 1000Mbps < 1,8 us         1000Mbps < 1,8 us         1000Mbps < 1,8 us           New         100Mbps > 1000Mbps < 3,0 us         1000Mbps < 1,8 us         100	Buffer size	128KB	192KB	256KB
Forwarding modes         Store-and-forward         Store-and-forward         Store-and-forward           Bandwidth         10 Gbps         16 Gbps         32 Gbps           Jumbo frame support         Up to 9K packet size         Up to 9K packet size         Up to 9K packet size           Acoustic noise (ANSI-S10.12)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)           Mean Time Between Failures (MTBF)         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,582 hrs (9 yrs)           Metwork latency (64 bytes)         1000Mbps -> 1000Mbps: <2.6us		Yes	Yes	Yes
Bandwidth         10 Gbps         16 Gbps         32 Gbps           Jumbo frame support         Up to 9K packet size         Odd BA (fanless)         0 dBA (fanless)	Performance Specification			
Jumbo frame support         Up to 9K packet size         Up to 9K packet size         Up to 9K packet size           Acoustic noise (ANSI-S10.12)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)           Mean Time Between Failures (MTBF)         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,582 hrs (9 yrs)           Network latency (64 bytes) New         1000Mbps -> 1000Mbps: <2.6us 1000Mbps: <1.6us 100Mbps: <1.6us 100Mbps: <4.9us	Forwarding modes	Store-and-forward	Store-and-forward	Store-and-forward
Acoustic noise (ANSI-S10.12)         0 dBA (fanless)         0 dBA (fanless)         0 dBA (fanless)           Mean Time Between Failures (MTBF)         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,582 hrs (9 yrs)           Network latency (64 bytes)         1000Mbps -> 1000Mbps -< 2.6us 1000Mbps -> 1	Bandwidth	10 Gbps	16 Gbps	32 Gbps
Mean Time Between Failures (MTBF)         3,197,945 hrs (52 yrs)         9,727,733 hrs (158 yrs)         554,582 hrs (9 yrs)           Network latency (64 bytes) New         1000Mbps -> 1000Mbps: <2.6us 1000Mbps: <1.6us 1000Mbp	Jumbo frame support	Up to 9K packet size	Up to 9K packet size	Up to 9K packet size
MTBF    3,177,943 hrs (oz yrs)   7,727,733 hrs (136 yrs)   334,362 hrs (9 yrs)	Acoustic noise (ANSI-S10.12)	0 dBA (fanless)	0 dBA (fanless)	0 dBA (fanless)
Network latency (64 bytes)         100Mbps -> 100Mbps: <4.5us 10Mbps -> 100Mbps: <4.9us 10Mbps -> 100Mbps: <4.9us 10Mbps: <18.8us         100Mbps -> 100Mbps: <4.9us 10Mbps: <18.8us           Quality of Service (QoS)         Ves         Ves         Yes		3,197,945 hrs (52 yrs)	9,727,733 hrs (158 yrs)	554,582 hrs (9 yrs)
Max Power Consumption (W)         2.7W         4.9W         9.5W           DSCP         Yes         Yes         Yes           IEEE 802.1p COS         Yes         Yes         Yes           Queue WRR Ratio         1:2:4:8         1:2:4:8         1:2:4:8           IEEE Network Protocols           IEEE 802.3p Class of Service           IEEE 802.3ab 1000BASE-T         IEEE 802.3x full-duplex flow control           IEEE 802.3y full-duplex flow control           IEEE 802.3y 100BASE-TX New         Yes           Miscellaneous Features           IEEE 802.3az (Energy Efficient Ethernet)         Yes         Yes           Ves           LEED 802.3az (Energy Efficient Ethernet)         Yes         Yes           LEED 802.3az (Energy Efficient Ethernet)         Yes         Yes           Per port         Speed, Link, Activity         Speed, Link, Activity         Speed, Link, Activity         Power Status           Power Status         Power Status         Power Status           Physical Specifications           286 x 100 x 27 mm (3.37 x 3.9 x 1.1 in)         (6.2 x 4.0 x 1.1 in)         (11.3 x 3.9 x 1.1 in)	· · ·	100Mbps> 100Mbps: <4.5us	100Mbps> 100Mbps: <4.9us	·
DSCP         Yes         Yes         Yes           IEEE 802.1p COS         Yes         Yes         Yes           Queue WRR Ratio         1:2:4:8         1:2:4:8         1:2:4:8           IEEE Network Protocols           IEEE 802.3 Ethernet         IEEE 802.1p Class of Service           IEEE 802.3ab 1000BASE-T         IEEE 802.3x full-duplex flow control           IEEE 802.31 108ASE-T Ethernet New         Yes           IEEE 802.3u 100BASE-TX New         Yes           Miscellaneous Features           IEEE 802.3az (Energy Efficient Ethernet)         Yes         Yes           Miscellaneous Features           LEDS           Per port         Speed, Link, Activity         Speed, Link, Activity         Speed, Link, Activity         Power Status	Quality of Service (QoS)			
IEEE 802.1p COS         Yes         Yes         Yes           Queue WRR Ratio         1:2:4:8         1:2:4:8         1:2:4:8           IEEE Network Protocols           IEEE 802.3 Ethernet         IEEE 802.1p Class of Service           IEEE 802.3ab 1000BASE-T         IEEE 802.3x full-duplex flow control           IEEE 802.3l 10BASE-T Ethernet New         Yes           IEEE 802.3U 100BASE-TX New         Yes           Miscellaneous Features           IEEE 802.3az (Energy Efficient Ethernet)         Yes         Yes           Yes           LEEE 802.3az (Energy Efficient Ethernet)         Yes         Yes           Yes           LEEE 802.3az (Energy Efficient Ethernet)         Yes         Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes           Yes	Max Power Consumption (W)	2.7W	4.9W	9.5W
Queue WRR Ratio         1:2:4:8         1:2:4:8         1:2:4:8           IEEE Network Protocols           IEEE 802.3 Ethernet         IEEE 802.1p Class of Service           IEEE 802.3ab 1000BASE-T         IEEE 802.3x full-duplex flow control           IEEE 802.31 10BASE-T Ethernet New         Yes           IEEE 802.3U 100BASE-TX New         Yes           Miscellaneous Features           IEEE 802.3az (Energy Efficient Ethernet)         Yes         Yes           Yes           LEDs           Per port         Speed, Link, Activity         Speed, Link, Activity         Speed, Link, Activity           Per device         Power Status         Power Status         Power Status           Physical Specifications           Dimensions         94 x 100 x 27 mm (3.7 x 3.9 x 1.1 in)         158 x 102 x 27 mm (6.2 x 4.0 x 1.1 in)         286 x 100 x 27 mm (11.3 x 3.9 x 1.1 in)	DSCP	Yes	Yes	Yes
IEEE Network Protocols           IEEE 802.3 Ethernet         IEEE 802.1 p Class of Service           IEEE 802.3ab 1000BASE-T         IEEE 802.3x full-duplex flow control           IEEE 802.31 10BASE-T Ethernet New         Yes           IEEE 802.3U 100BASE-TX New         Yes           Miscellaneous Features           IEEE 802.3az (Energy Efficient Ethernet)         Yes         Yes           Per port         Speed, Link, Activity         Speed, Link, Activity         Speed, Link, Activity           Per device         Power Status         Power Status         Power Status           Physical Specifications         94 x 100 x 27 mm         158 x 102 x 27 mm         286 x 100 x 27 mm           Dimensions         (3.7 x 3.9 x 1.1 in)         (6.2 x 4.0 x 1.1 in)         (11.3 x 3.9 x 1.1 in)	IEEE 802.1p COS	Yes	Yes	Yes
IEEE 802.3 Ethernet   IEEE 802.1 p Class of Service     IEEE 802.3 ab 1000BASE-T   IEEE 802.3 x full-duplex flow control     IEEE 802.3 l 10BASE-T Ethernet New	Queue WRR Ratio	1:2:4:8	1:2:4:8	1:2:4:8
IEEE 802.3ab 1000BASE-T         IEEE 802.3x full-duplex flow control         IEEE 802.3I 10BASE-T Ethemet New       Yes         IEEE 802.3U 100BASE-TX New       Yes         Miscellaneous Features         IEEE 802.3az (Energy Efficient Ethernet)       Yes       Yes         Yes       Yes         LEDs         Per port       Speed, Link, Activity       Speed, Link, Activity <td>IEEE Network Protocols</td> <td></td> <td></td> <td></td>	IEEE Network Protocols			
IEEE 802.3  10BASE-T Ethernet New	IEEE 802.3 Ethernet		IEEE 802.1p Class of Service	
IEEE 802.3U 100BASE-TX New  Miscellaneous Features  IEEE 802.3az (Energy Efficient Yes Yes Yes Yes Yes  LEDs  Per port Speed, Link, Activity Speed, Link, Activity Speed, Link, Activity Per device Power Status Power Status Power Status  Physical Specifications  Olimensions 94 x 100 x 27 mm (3.7 x 3.9 x 1.1 in) (6.2 x 4.0 x 1.1 in) (11.3 x 3.9 x 1.1 in)	IEEE 802.3ab 1000BASE-T		IEEE 802.3x full-duplex flow control	
Miscellaneous Features    EEE 802.3az (Energy Efficient Ethernet)	IEEE 802.3I 10BASE-T Ethernet New		Yes	
IEEE 802.3az (Energy Efficient Ethernet)YesYesYesYesYesYesYesYesYesYesYesYesYesYesSpeed, Link, ActivitySpeed, Link, ActivityPower StatusPower Sta	IEEE 802.3U 100BASE-TX New		Yes	
Ethernet) Tes	Miscellaneous Features			
Per portSpeed, Link, ActivitySpeed, Link, ActivitySpeed, Link, ActivityPer devicePower StatusPower StatusPower StatusPhysical SpecificationsDimensions $94 \times 100 \times 27 \text{ mm}$ $158 \times 102 \times 27 \text{ mm}$ $286 \times 100 \times 27 \text{ mm}$ $(3.7 \times 3.9 \times 1.1 \text{ in})$ $(6.2 \times 4.0 \times 1.1 \text{ in})$ $(11.3 \times 3.9 \times 1.1 \text{ in})$		Yes	Yes	Yes
Per device Power Status Power Status Power Status Power Status  Physical Specifications $ \begin{array}{cccccccccccccccccccccccccccccccccc$	LEDs			
Physical Specifications         Dimensions       94 x 100 x 27 mm       158 x 102 x 27 mm       286 x 100 x 27 mm         (3.7 x 3.9 x 1.1 in)       (6.2 x 4.0 x 1.1 in)       (11.3 x 3.9 x 1.1 in)	Per port	Speed, Link, Activity	Speed, Link, Activity	Speed, Link, Activity
Dimensions 94 x 100 x 27 mm 158 x 102 x 27 mm 286 x 100 x 27 mm (3.7 x 3.9 x 1.1 in) (6.2 x 4.0 x 1.1 in) (11.3 x 3.9 x 1.1 in)	Per device	Power Status	Power Status	Power Status
Dimensions $(3.7 \times 3.9 \times 1.1 \text{ in})$ $(6.2 \times 4.0 \times 1.1 \text{ in})$ $(11.3 \times 3.9 \times 1.1 \text{ in})$	Physical Specifications			
Weight 0.26 kg (0.57 lb) 0.47 kg (1.04 lb) 0.9 kg (1.98 lb)	Dimensions			
	Weight	0.26 kg (0.57 lb)	0.47 kg (1.04 lb)	0.9 kg (1.98 lb)



# **Technical Specifications**

Environmental Specifications	GS105v5	GS108v4	GS116v2
Operating			
Operating Temperature (Switch)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Operating Temperature (Adapter)	32° to 104°F (0° to 40°C)	32° to 104°F (0° to 40°C)	32° to 104°F (0° to 40°C)
Humidity	90% m	aximum relative humidity, non-cond	ensing
Altitude		10,000 ft (3,000 m) maximum	
Storage			
Storage Temperature		- 4° to 158°F (-20° to 70°C)	
Humidity	95% maximum relative humidity, non-condensing		
Altitude		10,000 ft (3,000 m) maximum	
Electromagnetic Emissions and Immu	unity		
Certifications Class	B (CE, FCC Part 15, ICES-003, VCCI, RCM, CCC)	B (CE, FCC Part 15, ICES-003, VCCI, RCM, BSMI)	A (CE, FCC Part 15, ICES-003, VCCI, RCM, VCCI, KC, CCC)
Safety	, , ,	, , ,	, , , , ,
Certifications	CB, CCC	CE LVD	CB, CE LVD, CCC
	EN 60950-1	EN 60950-1	EN 60950-1
Warranty and Support*			
Hardware Warranty	Limited life	etime* on switch and 2-year on powe	er adapter
Live Chat Support		Limited lifetime*	
Next Business Day Replacement		Limited lifetime*	
ProSUPPORT OnCall 24x7 Service Plans	PMB0S11 (1 yr) PMB0S31 (3 yrs) PMB0S51 (5 yrs)	PMB0S11 (1 yr) PMB0S31 (3 yrs) PMB0S51 (5 yrs)	PMB0S12 (1 yr) PMB0S32 (3 yrs) PMB0S52 (5 yrs)
Package Content			
All models	Pov	Gigabit Ethernet Switch ver adapter (localized to country of sa Wall mount kit and rubber feet Installation Guide	ale)



# Ordering Information

GS105NA	North America and Latin America
GS105GE	Europe
GS105AU	Australia
GS105UK	United Kingdom
GS105-500JPS	Japan
GS108-400NAS	North America and Latin America
GS108GE	Europe
GS108AU	Australia
GS108UK	United Kingdom
GS108-400JPS	Japan
GS116NA	North America and Latin America
GS116GE	Europe
GS116AU	Australia
GS116UK	United Kingdom
GS116-200JPS	Japan

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<sup>\*</sup>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.