



Today's growing businesses rely more on their network to carry out missioncritical business activities. Deployment of VoIP and IP surveillance needs the network intelligence to separate the voice and video traffic from data, and prioritize them accordingly. However, companies do not necessarily have more money or advanced training to deal with complex managed switches. NETGEAR® Plus Switches meet this growing need by providing fundamental network features such as VLANs, QoS, and IGMP Snooping that will help optimize the performance of business networks. Plus Switches come in a variety of configurations ranging from 5 port desktop to 48 port rack mount.

Control and Configure Beyond Plug-and-Play Connectivity

Some models support Power-over-Ethernet (PoE) and can power devices such as IP phones, IP surveillance cameras and wireless access points with just an Ethernet cable; perfect for low cost PoE deployments. Plus Switches are the perfect upgrade from the plugand-play unmanaged switch, delivering essential networking features at a very affordable price.

Highlights

- Enable network configuration and management at the price point of Unmanaged Switches
- Gigabit connection delivers up to 2000 Mbps of dedicated, nonblocking bandwidth per port
- Simple, yet useful network set-up on top of plug-and-play connectivity
- Flexible management via easy-to-use web browser-based management GUI or using the PC-based Utility application
- Web Interface with multiple language option¹
- 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 detection and broadcast storm controls
- IGMP snooping v1, v2 and v3 support for multicast optimization
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Link aggregation/port trunking for bigger uplink bandwidth (16-port and 24-port models support static manual LAGs only; GS750E supports static manual LAGs and LACP)

- Jumbo frame support
- Energy Efficient Ethernet (IEEE 802.3az) support for maxium power savings
- *Limited Lifetime Hardware Warranty (excludes external power adapters on applicable models)
- Lifetime 24/7 Chat Technical Support*
- Next-Business-Day Hardware Replacement*



¹ Option only available on the GS108Ev3, GS108PEv3, GS116Ev2, GS750E, JGS516PE, JGS524Ev2, JGS524PE, GS105Ev2 and GS105PE English, German, and Japanese are the current supported languages.



Hardware at a Glance

		FRONT		REAR	INTERNAL
Model Name	Form-Factor	10/100/1000 Base-T RJ45 ports	PoE 802.3af Ports	Power Supply	PoE budget
GS105Ev2	Desktop	5	N/A	External Power Adapter	N/A
GS105PE	Desktop	5	2	NO POWER SUPPLY - must be powered from another PoE device	PoE pass-thru: 19W with 802.3at/7.9W with 802.3af input power
GS108Ev3	Desktop	8	N/A	External Power Adapter	N/A
GS108PEv3	Desktop	8	4	External Power Adapter	53W
GS116Ev2	Desktop	16	N/A	External Power Adapter	N/A
JGS516PE	Rack mount	16	8	Internal	85W
JGS524Ev2	Rack mount	24	N/A	Internal	N/A
JGS524PE	Rack mount	24	12	Internal	100W
GS750E	Rack mount	48 Copper and 2 SFP	N/A	Internal	N/A

Software at a Glance

Management	IP Multicast filtering	IEEE 802.3az Auto-EEE	VLANs	QoS	Port Trunking ²	Rate Limiting	Jumbo Frame Support
PC Utility Tool Web GUI	IGMP Snoop- ing v1, v2 and v3	Yes	Port-based, IEEE 802.1Q- based VLANs	Port-based, IEEE 802.1p- based	16-ports and larger	Yes	Yes

²GS116Ev2, JGS516PE, JGS524Ev2, and JGS524PE support static manual LAGs only. GS750E supports static manual LAGs and LACP.



Features and Benefits

Hardware Features	
All Gigabit models	Making Plus Switch an ideal upgrade for SMB network combining manage- ment capability with higher speed and better performance
PoE offerings in Plus Switches	With half of the ports capable of supporting PoE, these PoE Plus models are the most cost-efficient Gigabit Ethernet solution for converaged net- works where PoE support is needed, but isn't necessary on all ports
Desktop and rack mount ⁺⁺	Flexibile deployment for either desktop placement, undertable mount, wall mount as well as rack mount
Software Features	
VLAN	Segment network into smaller groups for more secure and efficient use of network resources
QoS	For optimized network performance and better delivery of mission-critical traffic such as voice and video
IGMP Snooping	For improved network efficiency on delivering multicast traffic
Link Aggregation/Port Trunking ²	Build up bigger bandwidth to support aggregated uplink traffic (16-port and larger models only)
Port Mirroring	For better and quicker network diagnostics and troubleshooting
Cable Test	Easily identify bad Ethernet cables
Multiple Language GUI	Product documentation and user interfaces are translated, giving you the ability to select your preferred language (English, German, and Japanese) ¹

¹ Option only available on the GS108Ev3, GS108PEv3, GS116Ev2, GS750E, JGS516PE, JGS524Ev2, JGS524PE, GS105Ev2 and GS105PE. English, German, and Japanese are the current supported languages.

² GS116Ev2, JGS516PE, JGS524Ev2, and JGS524PE support static manual LAGs only. GS750E supports static manual LAGs and LACP.



Example Application



Why the NETGEAR Gigabit Plus Switch is the ideal upgrade from Unmanaged Switches for SMB networks:

- Configurable with simple set-up
- Build multiple user groups
- Prioritize voice and video traffic
- Monitor and troubleshoot

NETGEAR[®] B U S I N E S S

Data Sheet Gigabit Ethernet Plus Switches

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Technical Specifications	GS105Ev2	GS105PE	GS108Ev3	GS108PEv3	GS116Ev2	JGS516PE	JGS524Ev2	JGS524PE	GS750E
Gigabit ports	5	5	8	8	16	16	24	24	48
Fiber ports	0	0	0	0	0	0	0	0	2 SFP
# of PoE ports	N/A	2	N/A	4	N/A	8	N/A	12	N/A
Total PoE power budget (watts)	N/A	PoE pass-thru: 19W with 802.3at/ 7.9W with 802.3af input power	N/A	53	N/A	85	N/A	100	N/A
Max MAC entries	2K	2K	4K	4K	16K	16K	16K	16K	16K
Buffer size	128KB	128KB	192KB	192KB	768KB	768KB	768KB	768KB	1.5MB
Energy Efficient Ethernet (IEEE 802.3az) compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance Specification									
Forwarding modes					Store-and-forwa	rd			
Bandwidth	10Gbps	10Gbps	16Gbps	16Gbps	32Gbps	32Gbps	48Gbps	48Gbps	100Gbps
Priority queuing				Weigh	ted Round Rob	oin (WRR)			
Jumbo frame support	Up to 9K packet size	Up to 9K packet size	Up to 9720 bytes	Up to 9720 bytes	Up to 9K packet size				
Acoustic noise (dB) (ANSI-S10.12)	0	0	0	0	0	24.5	0	24.4	0
Mean Time Between Failures (MTBF) (hrs)	2,531,294	1,685,972	2,525,259	1,242,394	504,993	840,354	243,476	643,506	1,055,076
L2 Services - VLANs									
VLAN (# Supported)	64	64	32	32	100	100	100	100	4000
IEEE 802.1Q VLAN Tagging	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port-based VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
L2 Services - Availability									
Link Aggregation/ Port Trunking2	No	No	No	No	Static Manual LAGs only	Static Manual LAGs only	Static Manual LAGs only	Static Manual LAGs only	Static and LACP
Number of Static Manual LAGs and # of members	N/A	N/A	N/A	N/A	8 LAGs and 2 to 4 members	8 LAGs and 2 to 8 members			
L2 Services - Multicast Filtering									
IGMP Snooping (v1, v2 and v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Block unknown Multicast	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supported Mulitcast groups	128	128	128	128	64	64	64	64	128
L3 Services - DHCP									
DHCP client	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Rate limitingYesYesYesYesYesYesYesDSCPYesYesYesYesYesNoNoNoNoIEEE 802.1p COSYesYesYesYesYesYesYesYesYesPort-based VLANYesYesYesYesYesYesYesYesYesTOSYesYesYesYesYesYesYesYesYesYesWRR (Weighted Round Robin)YesYesYesYesYesYesYesYesYesStrict Priority Queue TechnologyNoNoNoNoNoNoNoNoNoNoNoIEEE 802.3 Ethernet• IEEE 802.3ab 1000BASE-T• IEEE 802.3ab 1000BASE-T• IEEE 802.3ab 1000BASE-T• IEEE 802.3ab 1000BASE-T• IEEE 802.3ab 1000BASE-T	Yes Yes Yes Yes Yes No
IEEE 802.1p COSYesYesYesYesYesYesYesPort-based VLANYesYesYesYesYesYesYesYesTOSYesYesYesYesYesYesYesYesYesWRR (Weighted Round Robin)YesYesYesYesYesYesYesYesStrict Priority Queue TechnologyNoNoNoNoNoNoNoNoIEEE 802.3 Ethernet	Yes Yes Yes No
Port-based VLAN Yes	Yes Yes Yes No
TOS Yes Y	Yes Yes No
WRR (Weighted Round Robin) Yes <	Yes
Strict Priority Queue Technology No No <td>No</td>	No
IEEE Network Protocols IEEE 802 3 Ethernet IEEE 802 3ab 1000BASE-T	
IFFF 802 3 Ethernet IFFF 802 3ab 1000BASE-T	ol
• IEEE 802.3 Ethernet • IEEE 802.3ab 1000BASE-T	ol
• IEEE 802.3i 10BASE-T • IEEE 802.1p Class of Service • IEEE 802.1Q VLAN Tagging • IEEE 802.3u 100BASE-T • IEEE 802.3af (PoE) • IEEE 802.3x Full-duplex Flow Cont	
Management	
System Password Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Web browser-based management GUI Yes	Yes
PC Utility Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Port Mirroring Yes Yes	Yes
Multiple Language GUI Yes: English, German, Japanese	
Max number of source ports allowed 4 4 7 7 15 15 23 23 (many to 1)	47
Many-to-One Port Mirroring Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Cable Test utility Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
FW upgrade thru Plus Utility (TFTP) Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Config download (to Switch) thru Plus Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Yes
Config upload (to Server) Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Miscellaneous Features	
	oop revention
DoS Prevention Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Broadcast Storm Control Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Energy Efficient Ethernet (EEE) Yes Yes Yes Yes Yes Yes Yes Yes	Yes
LEDs	

 Per port
 Speed, Link, Activity

 Per device
 Power, Fan and PoE Power Status

NETGEAR[®] B U S I N E S S

Data Sheet Gigabit Ethernet Plus Switches

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Physical Specifications	GS105Ev2	GS105PE	GS108Ev3	GS108PEv3	GS116Ev2	JGS516PE	JGS524Ev2	JGS524PE	GS750E
Dimensions (mm)	94x100x27	158x100x27	158x101x29	158x101x29	286x101x26	328x170x43	328x170x43	328x170x43	440x204x43
Weight (kg)	0.25	0.47	0.50	0.54	0.84	1.67	1.40	1.84	3.25
Fan	0	0	0	0	0	1	0	1	0
Power Consumption (when all ports used, line-rate traffic and max PoE)									
Worst case, all ports used, line-rate traffic, max PoE (W)	2.6	22.0	4.5	60.0	10.0	110.0	13.8	123.0	30
Heat Dissipation Max/Standby (BTU/hr)	Max: 8.9 Min: 2.2	Max: 6.7 Min: 1.2	Max: 15.2 Min: 4.9	Max: 205.2 Min: 3.7	Max: 34.2 Min: 13.3	Max: 34.2 Min: 14.4	Max: 47.2 Min: 19.6	Max: 78.7 Min: 19.8	Max: 102.7 Min: 38.9
Environmental Specifications ²									
Operating									
Operating temperature - Switch	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 104°F (0° to 40°C)	32° to 104°F (0° to 40°C)	32° to 104°F (0° to 40°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122° (0° to 50°C
Operating temperature - Adapter				32	° to 104°F (0° to 4	0°C)			
Humidity				90% maximum	relative humidity,	non-condensing			
Altitude				10,00	0 ft (3,000 m) max	kimum			
Storage									
Storage temperature				- 4° t	to 158°F (-20° to 3	70°C)			
Humidity				95% maximum	relative humidity,	non-condensing			
Altitude				10,00	0 ft (3,000 m) max	kimum			
Electromagnetic Emissions and Immunity									
Certifications Class (including but not limited to CE, FCC Part 15, VCCI, RCM, KCC, EAC and CCC)	В	В	В	А	А	А	А	А	А
Safety									
Certifications	CB, CE LVD, CCC, EAC	CE LVD, EAC	CB, CE LVD, CCC, EAC	CB, CE LVD, CCC, EAC	CB, CE LVD, CCC, EAC	CB, CE LVD, CCC, EAC, UL 60950-1	CB, CE LVD, CCC, EAC, UL 60950-1	CB, CE LVD, CCC, EAC, UL 60950-1	CB, CE LVD, CCC, EAC, UL 60950-1
Warranty and Support									
Switch Warranty	Limited lifetime warranty*	Limited lifetime warranty*							
Power Adapter Warranty	2 years		2 years	2 years	2 years				
Technical support			Lifet	ime Tech Support	t* via chat, 90 day	tech support via	email		
Next-Business-Day (NBD) Replacement					Limited lifetime*				
ProSUPPORT OnCall 24x7, Service Packs	Category S01 PMB0S11 (1 yr) PMB0S31 (3 yr) PMB0S51 (5 yr)	Category S02 PMB0S12 (1 yr) PMB0S32 (3 yr) PMB0S52 (5 yr)	Category 1 PMB0311 (1 yr) PMB0331 (3 yr) PMB0351 (5 yr)						

² Do not use these devices outdoors. If you connect cables or devices that are outdoors to this device, see https://kb.netgear.com/000057103 for safety and warranty information



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State JGS516PE GS105E-200NAS North America and Latin America JGS516PE-100NAS North America and Latin America GS105E-200NLS Europe JGS516PE-100NAS North America and Latin America GS105E-200NLS Australia JGS516PE-100NAS Asiar Pacific/Japan GS105E-200NLS United Kingdorn JGS516PE-100NS India GS105E-200NLS United Kingdorn JGS516PE-100NS India GS105E-200NLS United Kingdorn JGS524E Europe GS105E-200NLS Worldwide JGS524E-200NAS North America and Latin America GS105E-200NLS Worldwide JGS524E-200NAS North America and Latin America GS105E-200NLS North America and Latin America JGS524E-200NAS North America and Latin America GS108E-300NLS North America and Latin America JGS524E-200NLS Europe GS108E-300NLS United Kingdorn JGS524FE-100NLS North America and Latin America GS108E-300NLS United Kingdorn JGS524FE-100NLS North America and Latin America GS108E-300NLS United Kingdorn JGS524FE-100NLS North America and Latin America GS108E-300NLS India JGS524FE-100NLS North America and Latin America GS108E-300NLS North America and Latin America </td <td>All models</td> <td>Power cord or power adapter (depending Installation guide</td> <td></td> <td>ipply or power cord)</td>	All models	Power cord or power adapter (depending Installation guide		ipply or power cord)
SG105E-200NAS North America and Latin America JGSS16/PE-100NAS North America and Latin America GS105E-200NAS Europe JGSS16/PE-100NAS North America and Latin America GS105E-200AUS Australia JGSS16/PE-100NAS North America and Latin America GS105E-200AUS Juited Kingdom JGSS16/PE-100NS China GS105E-200PS Japan JGSS16/PE-100NS India GS105PE JGSS16/PE-100NS India India GS105PE JGSS16/PE-100NS North America JGSS16/PE-100NS India GS105PE JGSS16/PE-100NS North America and Latin America JGSS24E-200NAS North America and Latin America GS108E-300NAS North America and Latin America JGSS24E-200NJS Asia Pacific/Japan GS108E-300NAS North America and Latin America JGSS24PE-200NJS North America and Latin America GS108E-300NAS North America and Latin America JGSS24PE-100NAS North America and Latin America GS108E-300NS India JGSS24PE-100NAS North America and Latin America GS108E-300NS India JGSS24PE-100NAS North America and Latin America GS108E-300NS India JGSS24PE-100NAS North America and Latin America GS108PE-300NAS North America and Latin America	Ordering Information			
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⁺⁺ Only JGS516PE, JGS524Ev2, JGS524PE, and GS750E are rack mountable.

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DS-PlusSwitches-24Dec20