







# Control and Configure Beyond Plug-and-Play Connectivity

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® Smart Managed 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. Smart Managed Plus Switches come in a variety of configurations ranging from 5 port desktop to 48 port rack mount. 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. Smart Managed Plus Switches are the perfect upgrade from the plug-and-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\*





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### Hardware at a Glance

|               |             | FROM                             | NT                | REAR  | INTERNAL  |  |
|---------------|-------------|----------------------------------|-------------------|---|---|--|
| Model<br>Name | Form-Factor | 10/100/1000 Base-T<br>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 -<br>must be powered from<br>another PoE device | PoE pass-thru: 19W<br>with 802.3at/7.9W with<br>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<br>Auto-EEE | VLANs                                      | QoS                                  | Port Trunking <sub>2</sub> | Rate<br>Limiting | Jumbo<br>Frame<br>Support |
|----------------------------|-------------------------------------|--------------------------|--|--------------------------------------|----------------------------|------------------|---------------------------|
| PC Utility Tool<br>Web GUI | IGMP Snoop-<br>ing v1, v2<br>and v3 | Yes                      | Port-based,<br>IEEE 802.1Q-<br>based VLANs | Port-based,<br>IEEE 802.1p-<br>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 Smart Managed Plus Switch an ideal upgrade for SMB network combining management capability with higher speed and better performance  |  |  |  |  |  |
| Pol | E offerings in Smart Managed Plus Switches  | With half of the ports capable of supporting PoE, these PoE Smart<br>Man-aged Plus models are the most cost-efficient Gigabit Ethernet<br>solution for converaged networks where PoE support is needed, but<br>isn't necessary on all ports |  |  |  |  |  |
|     | Desktop and rack mount <sub>tt</sub>        | Flexibile deployment for either desktop placement, undertable mount<br>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-<br>critical traffic such as voice and video   |  |  |  |  |  |
|     | IGMP Snooping                               | For improved network efficiency on delivering multicast traffic   |  |  |  |  |  |
|     | Link Aggregation/Port Trunking <sub>2</sub> | Build up bigger bandwidth to support aggregated uplink traffic (16-<br>port and larger models only)   |  |  |  |  |  |
|     | Port Mirroring                              | For better and quicker network diagnostics and  |  |  |  |  |  |
|     | Cable Test                                  | troubleshooting 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)  |  |  |  |  |  |
|     |   |   |  |  |  |  |  |

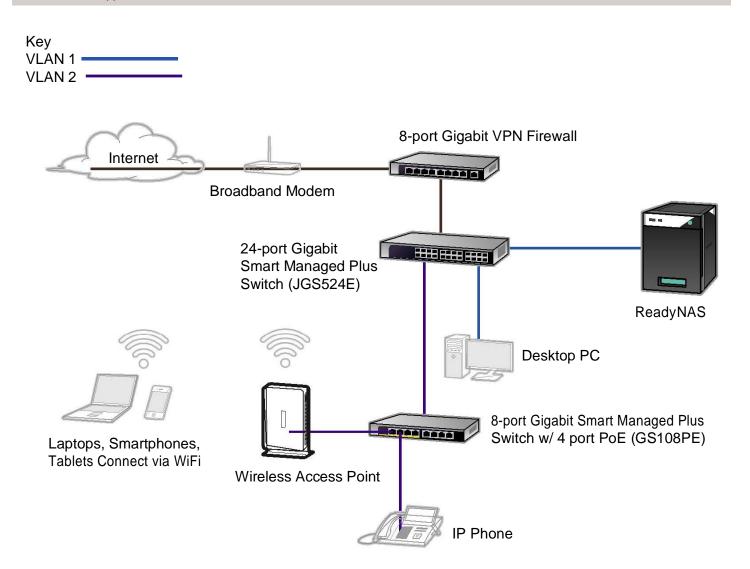
1 Option only available on the GS108Ev3, GS108PEv3, GS116Ev2, GS750E, JGS516PE, JGS524Ev2, JGS524PE, GS105Ev2 and GS105PE. English, German, and Japanese are the current supported languages.

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#### SMB Network Application



Why the NETGEAR Gigabit Smart Managed 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

hnology

Monitor and troubleshoot

# NETGEAR® BUSINESS

| 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<br>pass-thru:<br>19W with<br>802.3at/<br>7.9W with<br>802.3af<br>input<br>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<br>(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                                      |                         |   |                     | Weighte             | ed Round Robi                   | n (WRR)                         |                                 |                                 |                                 |
| Jumbo frame support                                   | Up to 9K<br>packet size | Up to 9K<br>packet size   | Up to 9720<br>bytes | Up to 9720<br>bytes | Up to 9K<br>packet size         |
| Acoustic noise (dB) (ANSI-S10.12)                     | 0                       | 0   | 0                   | 0                   | 0                               | 24.5                            | 0                               | 24.4                            | 0                               |
| Mean Time Between Failures (MTBF)<br>(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<br>Manual<br>LAGs only   | Static<br>Manual<br>LAGs only   | Static<br>Manual<br>LAGs only   | Static<br>Manual<br>LAGs only   | Static and<br>LACP              |
| Number of Static Manual LAGs and # of members         | N/A                     | N/A   | N/A                 | N/A                 | 8 LAGs<br>and 2 to 4<br>members | 8 LAGs<br>and 2 to 8<br>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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