NETGEAR®
BUSINESS

More Control and Visibility beyond Plug-and-play Connectivity

Today's growing businesses demand and rely more on their network to carry out mission-critical business activities. Companies are putting more network traffic and applications on their Ethernet infrastructure. For example, the increasing deployments of VoIP phones and IP cameras require more than simple plug-and-play connectivity. It needs the network intelligence to separate the voice and video traffic from data, and prioritize them accordingly.

Additionally, Internet-based applications such as Hotmail and Google Calendaring have made keeping the network up a business-critical need. However, companies do not necessarily have more money or advanced training to deal with complex managed switches.

NETGEAR's Plus Switches meet this growing need by providing fundamental network features that will help optimize the performance of business networks. NETGEAR's Plus Switches also offer traffic monitoring for users to observe traffic behavior. If there are connectivity issues, these switches can identify and even locate connection problems via cable diagnostic test. To optimize traffic through the switches, Plus Switches offer both port and tag-based prioritization to keep latency-sensitive traffic moving ahead of less critical packets. Also, Plus Switches offer port and 802.1Q-based VLAN as a means of improving security and network performance. Plus Switches are an upgrade from the plug-and-play Unmanaged Switch, delivering great value for empowering your network, delivering great value to the end user.
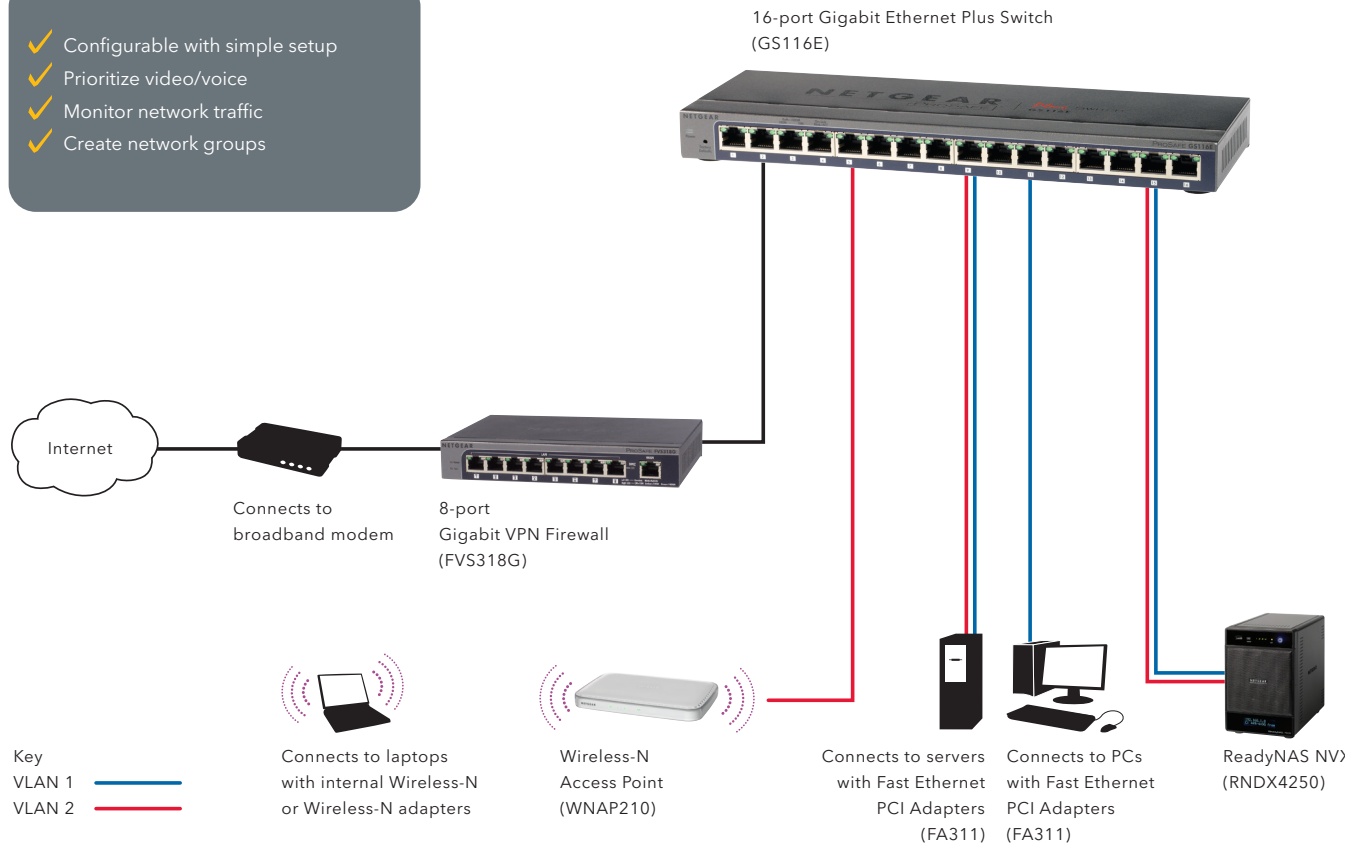
Highlights

- Smart Managed Plus Switch delivers network monitoring, traffic prioritization and VLAN
- 16 ports deliver up to 2000 Mbps of dedicated, non-blocking bandwidth per port
- Simple, yet useful network set-up on top of plug-and-play connectivity
- Gigabit speed with QoS, VLAN and network monitoring

- 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 for multicast optimization
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Jumbo frame support

Example Application

The NETGEAR Difference

✓ Configurable with simple setup
✓ Prioritize video/voice
✓ Monitor network traffic
✓ Create network groups

16-port Gigabit Ethernet Plus Switch
(GS116E)

Internet

Connects to
broadband modem

8-port
Gigabit VPN Firewall
(FVS318G)

Key
VLAN 1
VLAN 2

Connects to laptops
with internal Wireless-N
or Wireless-N adapters

Wireless-N
Access Point
(WNAP210)

Connects to servers
with Fast Ethernet
PCI Adapters
(FA311)

Connects to PCs
with Fast Ethernet
PCI Adapters
(FA311)

ReadyNAS NVX
(RNDX4250)

Product Comparison at a Glance

Features	GS105	GS108	GS108P	GS105E	GS108E	GS108PE	GS116	**GS116E**
10/100/1000 Mbps Ports	5	8	8	5	8	8	16	**16**
PoE ports			4			4		
Divide Network into Groups (VLAN)				Yes	Yes	Yes		**Yes**
Set Traffic Priority (QoS)				Yes	Yes	Yes		**Yes**
Bandwidth Control				Yes	Yes	Yes		**Yes**
Auto DoS Prevention				Yes	Yes	Yes		**Yes**
Loop Detection				Yes	Yes	Yes		**Yes**
Cable Test				Yes	Yes	Yes		**Yes**
IGMP Snooping				Yes	Yes	Yes		**Yes**
Warranty	Limited Lifetime*	Limited Lifetime*	Limited Lifetime*	Limited Lifetime*	Limited Lifetime*	Limited Lifetime*	Limited Lifetime*	**Limited Lifetime***

Technical Specifications	GS116E
System Requirements	Ethernet Category 5 cable Microsoft® Windows® 7, Vista®, or XP for running Configuration Utility
Standards Compliance	IEEE® 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3z 1000BASE-T Gigabit Ethernet IEEE 802.3x flow control Compatible with all major network software
Network Ports	Sixteen (16) 10/100/1000 Mbps Ethernet RJ-45 ports
AC Power	12V, 1A power adapter, localized to country of sale
Physical Specifications	
Dimensions (h x w x d)	27 x 287 x 103 mm (1.1 x 11.3 x 4.1 in)
Weight	0.81 kg (1.79 lb)
Environmental Specifications	
Operating temperature - Switch	32° to 122° F (0° to 50° C)
Operating temperature - Adapter	32° to 104°F (0° to 40°C)
Operating humidity	90% maximum relative humidity, non-condensing
Electromagnetic Compliance	
	CE mark (commercial), EN 55022 (CISPR 22) Class A, FCC Part 15 Class A, VCCI Class A, RCM, MIC
Safety Agency Approvals	
	CE/LVD, EN 60950, CB, CCC
Package Contents	
	16-Port Gigabit Ethernet Smart Managed Plus Switch (GS116E) Wall mount kit Power adapter Installation Guide
Warranty	
	Limited Lifetime* Warranty

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