#### **ProSAFE® Click Switches**

Data Sheet



#### Your ports and cables where you want them

Today's networks have increasing numbers of devices attached to them, both wired and wireless. As wired devices proliferate, it can be difficult to easily and neatly place networked ports where you want them.

NETGEAR ProSAFE Click Switches™ address this issue with an innovative and thoughtful hardware design, including the flexible 1–2–3–4 Click mounting system. The new ProSAFE Click Switches are Gigabit Ethernet switches with an industry-first, bracket mounting system for easy installation. Available in either 8– or 16–Gigabit port configurations, their slim design and internal power supplies enables you to organize wires, secure cables, eliminate bulky power adapters, and improve the overall appearance of wiring closets, training facilities, lab benches, conference rooms, and entertainment centers that require multiple connected devices.

#### Highlights

- Unique 1-2-3-4 Click mounting system for flexible placement options
- Cable management with provided retaining strap
- Multi-directional power cable to optimize placement
- Internal power supply to eliminate power brick
- 2 USB ports for quick access to charging tablets or smartphones (GSS108E only)
- Turn LED lights ON/OFF for non-distracting operation in dark environments such as next to a TV

NETGEAR Plus Switch features including:

- $\boldsymbol{\cdot}$  VLAN support for traffic segmentation
- Quality of Service (QoS) for traffic prioritization
- Auto "denial-of-service" (DoS) prevention (GSS116E only)
- 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
- Port trunking for bigger uplink bandwidth. (GSS116E only)

- · No fan for silent operation
- Reinforced plastic (GSS108E) or metal case (GSS116E) for rugged durability
- Jumbo frame support
- Energy Efficient Ethernet (IEEE802.3az) support for maxium power savings
- · LIFETIME Hardware Warranty
- · LIFETIME 24/7 Technical Support
- LIFETIME Next Business Day Replacement







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#### Flexible 1-2-3-4 Click Mounting System

The innovative 1-2-3-4 mounting system gives you the flexibility to place the Click Switch in locations where other switches will not go. Whether it's directly on a wall, strapped to a pole, under the meeting table in a conference room or in a server closet, vertical or horizontal, the Click Switch's unique mounting system allow you to control exactly how your ports and cables are deployed.

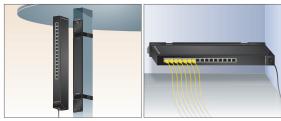
#### Flexible - 2 - 3 - 4 Mounting System



1 Vertical/side mount



3 Horizontal/side mount



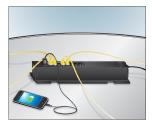
2 Vertical/rear mount



Easy to Install



Simply click into the bracket



Two USB ports for charging tablets or phones

#### Cable Management



Strap cables to the bracket



Strap the cables to the wall

#### Hardware at a Glance

Model name	10/100/1000 Base-T RJ45 ports	Internal Power Supply	USB Charging Ports	Case Material
GSS108E	8	yes	10W maximum per port 15W maximum total	Plastic
GSS116E	16	yes	Not applicable	Metal

#### Software at a Glance

Management	IP Multicast filtering	EEE (802.3az) Auto-EEE	VLANs	QoS	Port Trunking	Rate Limiting	Jumbo Frame Support
PC Utility Tool Web GUI	IGMP Snooping v1, v2 and v3	Yes	Port-based, IEEE802.1Q-based VLANs	Port-based, IEEE802.1p-based	Port Trunking is supported on GSS116E only.	Yes	Yes

## **ProSAFE® Click Switches**

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### **Features and Benefits**

Hardware Features	Benefits
All Gigabit models	Making Click Switch an ideal upgrade for SMB networks combining management capability with higher speed and better performance
Click Mounting System	Flexibile deployment for either desktop placement, undertable mount as well as wall mount
Software Features	Benefits
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
Port Trunking	Build up a bigger bandwidth to support aggregated uplink traffic (GSS116E only)
Port Mirroring	For better and quicker network diagnotics and troubleshooting
Cable Test	Easily identify bad Ethernet cables

#### **ProSAFE® Click Switches**

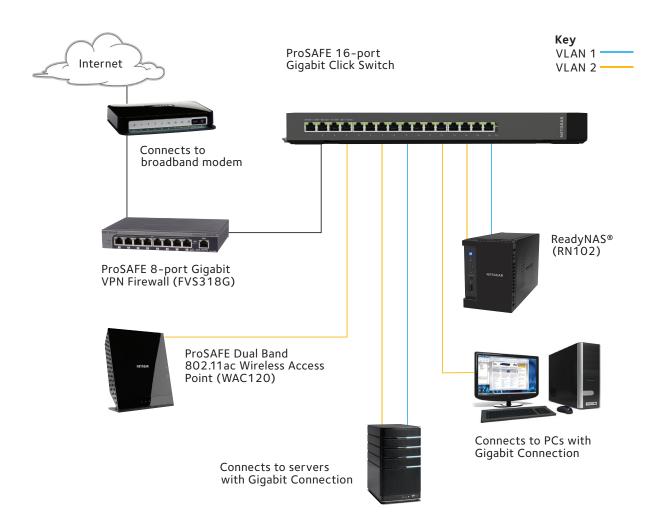
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#### **Target Application**

#### SMB Network Application

Why the NETGEAR Click 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



### **ProSAFE® Click Switches**

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## **Technical Specifications**

PRODUCT SPECIFICATIONS		
Product	GSS108E	GSS116E
Gigabit ports	8	16
Max MAC entries	8K	8K
Buffer size	128KB	512KB
Energy Efficient Enthernet (IEEE802.3az compliant)		Yes
PERFORMANCE SPECIFICATION		
Forwarding modes	Store-ar	nd-forward
Bandwidth	16 Gbps	32 Gbps
Priority queuing	Weighted Rou	und Robin (WRR)
Jumbo frame support		s up to 16000 Bytes. ts up to 9000 Bytes.
Acoustic noise (ANSI-S10.12)	0	0
Mean Time Between Failures (MTBF)	1031177	721479
L2 SERVICES - VLANS		
VLAN (# Supported)	64	128
IEEE 802.1Q VLAN Tagging		Yes
Port-based VLAN		Yes
L2 SERVICES - AVAILABILITY		
Port Trunking	No	Yes
Number of LAGs & # of members	NA	2 LAGs & 2 to 8 members.
L2 SERVICES - MULTICAST FILTERING		
IGMP Snooping (v1, v2 and v3)		Yes
IGMP Snooping queries		No
Block unknown Multicast		Yes
Supported Mulitcast groups	128	128
L3 SERVICES - DHCP		
DHCP Client		Yes
QUALITY OF SERVICE (QOS)		
Rate limiting		Yes
DSCP		Yes
IEEE 802.1p COS		Yes
Port-based VLAN		Yes
TOS		Yes
WRR (Weighted Round Robin)	V	WRR
Strict Priority queue technology		No

## **ProSAFE® Click Switches**

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## **Technical Specifications**

EEE NOTWORK PROTOCOLS    EEE NO.23 IL 1008.55 = T	Product	GSS108E	GSS116E	
EEE 802.3u 1000BASE.T   Yes     EEE 802.3u 2 Energy Efficient Ethernet   Yes     EEE 802.3u 2 Energy Efficient Ethernet   Yes     EEE 802.3u 2 Energy Efficient Ethernet   Yes     EEE 802.1y Class of Service   Yes     EEE 802.1p Class of Service   Yes     EEE 802.3u 2 Link Aggregation   No Static LAG     EEE 802.3u 2 Link Aggregation   No Static LAG     EEE 802.3u 2 Link Aggregation   No Static LAG     EEE 802.3u 3 Link Aggregation   No Static LAG     EEE 802.3u 4 Link Aggregation   No Static LAG     EEE 800.3u 4 Link Aggregation   No Sta	IEEE NETWORK PROTOCOLS			
EEE 802.3ab 1000BASE-T   VS	E 802.3i 10BASE-T Yes			
EEE 802.3x Full-duplex Flow Control	IEEE 802.3u 100BASE-T	Yes		
EEE 802.1	IEEE 802.3ab 1000BASE-T	Yes		
	IEEE 802.3az Energy Efficient Ethernet	Υ	/es	
IEEE 802.1p Class of Service         Yes           No Static LAG           MANAGEMENT           System Password         Yes           PC Utility         Yes           Port Mirroring         Yes           Port Mirroring         Yes           Max number of source ports allowed         1         15           Cable Test utility         Yes         15           W Upgrade thru Plus Utility (TFIP)         Yes         1           Config Download (to Switch) thru Plus Utility         Yes         1           Config Download (to Switch) thru Plus Utility         Yes         1           MISCELLANEOUS FEATURES           MISCELLANEOUS FEATURES           DoS Prevention         Yes         Seed S\$116E           Broadcast Storm Control         Yes         Seed S\$116E           Broadcast Storm Control         Yes         Per port         Speed, Link, Activity           Energy Efficient Ethernet (EEE)         Yes         Per device         Power           LED Control         Activity – Blinking (default). Activity – solid; Al LED off           PHYSICAL SPECIFICATIONS           Dimensions         305x65x35mm         407x70x35mm	IEEE 802.3x Full-duplex Flow Control	Υ	/es	
IEEE 802.3ad Link Aggregation         No         Static LAG           MANAGEMENT           System Password         Yes           PC Utility         Yes           Port Utility         Yes           Max number of source ports allowed         1         15           Adar number of source ports allowed         1         15           Adar number of source ports allowed         1         15           Adar number of source ports allowed         1         15           Cable Test utility         Yes           EXPUIDING US (INSTELLANE)         Yes           Config Download (to Switch) thru Plus Utility         Yes         Yes <th c<="" td=""><td>IEEE 802.1Q VLAN Tagging</td><td>Υ</td><td>/es</td></th>	<td>IEEE 802.1Q VLAN Tagging</td> <td>Υ</td> <td>/es</td>	IEEE 802.1Q VLAN Tagging	Υ	/es
MANAGEMENT           System Password         Yes           PC Utility         Yes           Port Mirroring         Yes           Max number of source ports allowed         1         15           Cable Test utility         Yes           EW Upgrade thru Plus Utility (TFTP)         Yes           Config Upload (to Server)         Yes           Config Upload (to Server)         Yes           MISCELLANEOUS FEATURES         Yes           Loop Detection         Yes           DoS Prevention         Yes for GS\$116E           No for GS\$108E         No for GS\$108E           Broadcast Storm Control         Yes           Energy Efficient Ethernet (EEE)         Yes           LEDS         Yes           LED Control         Speed, Link, Activity           Per port         Speed, Link, Activity = Solid, All LED off           PHYSICAL SPECIFICATIONS         Activity = Blinking (default), Activity = solid, All LED off           PHYSICAL SPECIFICATIONS         407x70x35mm           Weight         0,44Kg         1,3Kg           Fan         0         0           Power Consumption (when all ports used, line-rate traffic)	IEEE 802.1p Class of Service	Υ	/es	
System Password     Yes       PC Utility     Yes       Port Mirroring     Yes       Max number of source ports allowed     1     15       Cable Test utility     Yes       FW Upgrade thru Plus Utility (TFTP)     Yes       Config Download (to Switch) thru Plus Utility     Yes       Config Upload (to Server)     Yes       MISCELLANEOUS FEATURES       Loop Detection     Yes       DoS Prevention     Yes for GSS116E No for GSS108E       Broadcast Storm Control     Yes       Energy Efficient Ethernet (EEE)     Yes       LEDS       LED Seperation Speed, Link, Activity       Per port     Speed, Link, Activity       LED Control     Activity = Blinking (default); Activity = solic; All LED off       PHYSICAL SPECIFICATIONS       Dimensions     305x65x35mm     407x70x35mm       Weight     0.44Kg     1.3Kg       Fan     0     0       Power Consumption (when all ports used, line-rate triffic)	IEEE 802.3ad Link Aggregation	No	Static LAG	
PC Utility         Ves           Port Mirroring         Ves           Max number of source ports allowed         1         15           Cable Test utility         Yes         1           FW Upgrade thru Plus Utility (TFTP)         Yes         1           Config Download (to Switch) thru Plus Utility         Yes         1           Config Upload (to Server)         Yes         1           MISCELLANEOUS FEATURES           Loop Detection         Yes         1           DoS Prevention         Yes for GSS116E No for GSS108E         1           Broadcast Storm Control         Yes         1           Energy Efficient Ethernet (EEE)         Yes         1           Energy Efficient Ethernet (EEE)         Yes         1           LED Control         Speed, Link, Activity           Per port         Speed, Link, Activity         1           Per device         Power         1           LED Control         Activity – Blinking (default), Activity – solid, All LED off         1           PHYSICAL SPECIFICATIONS         407×70×35mm         407×70×35mm           Dimensions         305×65×35mm         407×70×35mm         40           Power Consumption (when all ports used, li	MANAGEMENT			
Port Mirroring     Yes       Max number of source ports allowed     1     15       Cable Test utility     Yes       FW Upgrade thru Plus Utility (TFTP)     Yes       Config Download (to Switch) thru Plus Utility     Yes       Config Upload (to Server)     Yes       MISCELLANEOUS FEATURES       Loop Detection     Yes       DoS Prevention     Yes for GS\$116E       No for GS\$108E     No for GS\$108E       Broadcast Storm Control     Yes       Energy Efficient Ethernet (EEE)     Yes       LEDs     Yes       Per port     Speed, Link, Activity       Per device     Power       LED Control     Activity – Blinking (default); Activity – solid; All LED off       PHYSICAL SPECIFICATIONS       Dimensions     305x65x35mm     407x70x35mm       Weight     0.44Kg     1.3Kg       Fan     0     0       Power Consumption (when all ports used, line-rate triffc)	System Password	Υ	/es	
Max number of source ports allowed 1 15 Cable Test utility Yes FW Upgrade thru Plus Utility (TFTP) Yes Config Download (to Switch) thru Plus Utility Yes Config Download (to Switch) thru Plus Utility Yes Config Upload (to Server) Yes  MISCELLANEOUS FEATURES Loop Detection Yes DoS Prevention Yes Broadcast Storm Control Yes Energy Efficient Ethernet (EEE) Yes  LEDS Per port Speed, Link, Activity Per device Power LED Control Activity = Blinking (default); Activity = solid; All LED off  PHYSICAL SPECIFICATIONS Dimensions 305x65x35mm 407x70x35mm Weight 0.44Kg 1.3Kg Fan 0 0 0 Power Consumption (when all ports used, line-rate traffic)	PC Utility	Y	/es	
Cable Test utility Yes  FW Upgrade thru Plus Utility (TFTP) Yes  Config Download (to Switch) thru Plus Utility Yes  Config Download (to Switch) thru Plus Utility Yes  Config Upload (to Server) Yes  MISCELLANEOUS FEATURES  Loop Detection Yes  Dos Prevention Yes For GSS116E No for GSS1108E  Broadcast Storm Control Yes  Energy Efficient Ethernet (EEE) Yes  LEDS  Per port Speed, Link, Activity  Per device Power  LED Control Activity = Blinking (default); Activity = solid; All LED off  PHYSICAL SPECIFICATIONS  Dimensions 305x65x35mm 407x70x35mm  Weight 0.44Kg 1.3Kg Fan 0 0 0  Power Consumption (when all ports used, line-rate traffic)	Port Mirroring	Υ	/es	
FW Upgrade thru Plus Utility (TFTP)  Config Download (to Switch) thru Plus Utility  Config Upload (to Server)  MISCELLANEOUS FEATURES  Loop Detection  Pos Prevention  Pres for GSS116E No for GSS108E  Broadcast Storm Control  Feer port  Per port  Per port  Per device  Power device  Control  PHYSICAL SPECIFICATIONS  Dimensions  More for all ports used, line-rate traffic)  Yes  1.86  1.96	Max number of source ports allowed	1	15	
Config Download (to Switch) thru Plus Utility       Yes         Config Upload (to Server)       Yes         MISCELLANEOUS FEATURES         Loop Detection       Yes         DoS Prevention       Yes for GSS116E No for GSS108E         Broadcast Storm Control       Yes         Energy Efficient Ethernet (EEE)       Yes         LEDS       Yes         Per port       Speed, Link, Activity         Per device       Power         LED Control       Activity = Blinking (default): Activity = solid; All LED off         PHYSICAL SPECIFICATIONS         Dimensions       305x65x35mm       407x70x35mm         Weight       0.44Kg       1.3Kg         Fan       0       0         Power Consumption (when all ports used, line-rate traffic)	Cable Test utility	Υ	/es	
Config Upload (to Server)         MISCELLANEOUS FEATURES         Loop Detection       Yes         DoS Prevention       Yes for GSS116E No for GSS108E         Broadcast Storm Control       Yes         Energy Efficient Ethernet (EEE)       Yes         LEDS         Per port       Speed, Link, Activity         Per device       Power         LED Control       Activity = Blinking (default); Activity = solid; All LED off         PHYSICAL SPECIFICATIONS         Dimensions       305x65x35mm       407x70x35mm         Weight       0.44Kg       1.3Kg         Fan       0       0         Power Consumption (when all ports used, line-rate traffic)	FW Upgrade thru Plus Utility (TFTP)	Υ	/es	
MISCELLANEOUS FEATURES   Loop Detection Yes   DoS Prevention Yes for GSS116E No for GSS108E   Broadcast Storm Control Yes   Energy Efficient Ethernet (EEE) Yes   LEDS   Per port Speed, Link, Activity   Per device Power   LED Control Activity = Blinking (default); Activity = solid; All LED off   PHYSICAL SPECIFICATIONS   Dimensions 305x65x35mm 407x70x35mm   Weight 0.44Kg 1.3Kg   Fan 0 0   Power Consumption (when all ports used, line-rate traffic)	Config Download (to Switch) thru Plus Utility	Y	/es	
Loop Detection  Yes  DoS Prevention  Yes for GSS116E No for GSS108E  Broadcast Storm Control  Yes  Energy Efficient Ethernet (EEE)  Yes  LEDs  Per port  Speed, Link, Activity  Per device  Power  LED Control  Activity = Blinking (default); Activity = solid; All LED off  PHYSICAL SPECIFICATIONS  Dimensions  305x65x35mm  407x70x35mm  Weight  0.44Kg 1.3Kg Fan  0  Power Consumption (when all ports used, line-rate traffic)	Config Upload (to Server)	Yes		
DoS Prevention  Yes for GSS116E No for GSS108E  Broadcast Storm Control  Yes  Energy Efficient Ethernet (EEE)  Yes  LEDs  Per port  Speed, Link, Activity  Per device  Power  LED Control  Activity = Blinking (default); Activity = solid; All LED off  PHYSICAL SPECIFICATIONS  Dimensions  305x65x35mm  407x70x35mm  Weight  0.44Kg 1.3Kg Fan 0 0 0 Power Consumption (when all ports used, line-rate traffic)	MISCELLANEOUS FEATURES			
Broadcast Storm Control Energy Efficient Ethernet (EEE)  Per port Per port Per device PHYSICAL SPECIFICATIONS Dimensions  Salar Age  Adoption of SSS108E  No for GSS108E  Yes  No for GSS108E  No for GSS108E	Loop Detection	Υ	/es	
Energy Efficient Ethernet (EEE)  Per port  Per port  Speed, Link, Activity  Per device  Power  LED Control  Activity = Blinking (default); Activity = solid; All LED off  PHYSICAL SPECIFICATIONS  Dimensions  305x65x35mm  407x70x35mm  Weight  0.44Kg  1.3Kg  Fan  0  0  Power Consumption (when all ports used, line-rate traffic)	DoS Prevention			
LEDs   Per port Speed, Link, Activity   Per device Power   LED Control Activity = Blinking (default); Activity = solid; All LED off   PHYSICAL SPECIFICATIONS   Dimensions 305x65x35mm 407x70x35mm   Weight 0.44Kg 1.3Kg   Fan 0 0   Power Consumption (when all ports used, line-rate traffic)	Broadcast Storm Control	Yes		
Per port Speed, Link, Activity  Per device Power  LED Control Activity = Blinking (default); Activity = solid; All LED off  PHYSICAL SPECIFICATIONS  Dimensions 305x65x35mm 407x70x35mm  Weight 0.44Kg 1.3Kg  Fan 0 0 0  Power Consumption (when all ports used, line-rate traffic)	Energy Efficient Ethernet (EEE)	Yes		
Per devicePowerLED ControlActivity = Blinking (default); Activity = solid; All LED offPHYSICAL SPECIFICATIONSDimensions305x65x35mm407x70x35mmWeight0.44Kg1.3KgFan00Power Consumption (when all ports used, line-rate traffic)	LEDs			
LED Control     Activity = Blinking (default); Activity = solid; All LED off       PHYSICAL SPECIFICATIONS       Dimensions     305x65x35mm     407x70x35mm       Weight     0.44Kg     1.3Kg       Fan     0     0       Power Consumption (when all ports used, line-rate traffic)	er port Speed, Link, Activity		nk, Activity	
PHYSICAL SPECIFICATIONSDimensions305x65x35mm407x70x35mmWeight0.44Kg1.3KgFan00Power Consumption (when all ports used, line-rate traffic)	Per device	evice Power		
Dimensions 305x65x35mm 407x70x35mm  Weight 0.44Kg 1.3Kg  Fan 0 0 0  Power Consumption (when all ports used, line-rate traffic)	ED Control Activity = Blinking (default); Activity = solid; All LED off		); Activity = solid; All LED off	
Weight0.44Kg1.3KgFan00Power Consumption (when all ports used, line-rate traffic)	PHYSICAL SPECIFICATIONS			
Fan 0 0 0 Power Consumption (when all ports used, line-rate traffic)	Dimensions	305x65x35mm	407x70x35mm	
Power Consumption (when all ports used, line-rate traffic)	Weight	0.44Kg 1.3Kg		
	Fan	0	0	
Worst case, all ports used, line-rate traffic, max USB 20.1W 8.4W	Power Consumption (when all ports used, line-rate traffic)			
	Worst case, all ports used, line-rate traffic, max USB	20.1W	8.4W	

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## **Technical Specifications**

GSS108E	GSS116E			
ENVIRONMENTAL SPECIFICATIONS				
0 - 40°C				
90% maximum relative h	numidity, non-condensing			
10,000 ft (3,00	00 m) maximum			
– 4° to 158°F	(-20° to 70°C)			
95% maximum relative h	numidity, non-condensing			
10,000 ft (3,00	00 m) maximum			
В				
CE mark, commercial				
CSA certified (CSA 22.2 #950)				
UL listed (UL 1950)/cUL IEC 950/EN 60950				
Lifetime*				
echnical Support via chat, 90 day tech support via phone				
Lifetime				
ProSAFE Click Switch				
Power cord				
1-2-3-4 Mounting Kit				
Cable retaining straps  Quick Install Guide				
Resource CD with PC Utility software				
	O - 4° to 158°F  95% maximum relative h  10,000 ft (3,0)  - 4° to 158°F  95% maximum relative h  10,000 ft (3,0)  CE mark, o  CSA certified (0  UL listed (UL 1950)/c  Lifet  Lifetime Tech Support via chat  Life  ProSAFE (  Powe  1-2-3-4 h  Cable reta  Quick Inse			

#### **ProSAFE® Click Switches**

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### **Ordering Information**

ORDERING INFORMATION	
GSS108E  North America and Latin America Europe  Australia United Kingdom Japan China	GSS108E-100NAS GSS108E-100EUS GSS108E-100AJS GSS108E-100EUS GSS108E-100AJS GSS108E-100PRS
GSS116E  North America and Latin America  Europe  Australia  United Kingdom  Japan  China	GSS116E-100NAS GSS116E-100EUS GSS116E-100AJS GSS116E-100EUS GSS116E-100AJS GSS116E-100PRS

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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 modifications to product may void the warranty; covers hardware, fans, and internal power supplies—not software or external power supplies; see http://www.netgear.com/about/warranty/ for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.