### **Smart Managed Plus Gigabit Ethernet Switches**

Data Sheet

300 Series



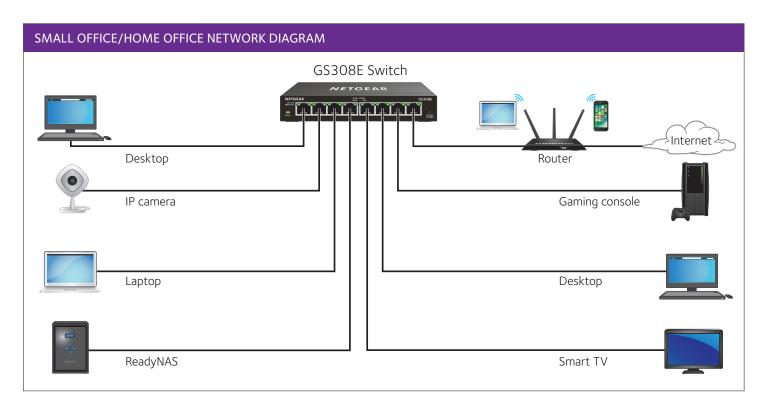


#### **Expanding Wired Connectivity for SOHO Networks**

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 are the perfect upgrade from the plug-and-play unmanaged switch, delivering essential networking features at a very affordable price.

- Enable network configuration and management at the price point of Unmanaged Switches
- 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
- VLAN support for traffic segmentation
- $\boldsymbol{\cdot}$  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
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Jumbo frame support



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### **GS300 Series Comparison**

Features	GS305E	GS308E	
Gigabit ports	5	8	
Max MAC entries	8K	4K	
Buffer Size	128KB	192KB	
Energy Efficient Ethernet (IEEE 802.3az) compliant	Yes	Yes	
PERFORMANCE SPECIFICATIONS			
Forwarding modes	Store-and	Store-and-forward	
Bandwidth	10Gbps	16Gbps	
Priority queuing	Weighted Round Robin (W	Weighted Round Robin (WRR), Strict Priority, or both	
Jumbo frame support	Up to 9K ş	Up to 9K packet size	
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	0	0	
Mean Time Between Failures (MTBF) @ 25° C	2,531,294 hours	1,638,156 hours	
L2 SERVICES - VLANS			
VLAN (# Supported)	64	32	
IEEE 802.1Q VLAN Tagging	Yes	Yes	
Port-based VLANs	Yes	Yes	
L2 Services - AVAILABILITY			
Link Aggregation/ Port Trunking	No	No	
Number of Static Manual LAGs and # of members	N/A	N/A	
L2 SERVICES - MULTICAST FILTERING			
IGMP snooping (v1, v2, and v3)	Y	Yes	
Block unknown multicast	Y	Yes	
Supported Multicast groups	128	128	
L3 SERVICES - DHCP			
DHCP client	Y	es	
QUALITY OF SERVICE (QOS)			
Rate Limiting	Y	es	
DSCP	Yes	No	
IEEE 802.1p COS	Y	Yes	
Port-based VLAN	Y	Yes	
TOS	Yes	No	
WRR (Weighted Round Robin)	Y	Yes	
Strict Priority queue technology	Y	es	

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Features	GS305E	GS308E	
IEEE STANDARDS SUPPORTED			
<ul> <li>IEEE 802.3 Ethernet</li> <li>IEEE 802.3ab 1000BASE-T</li> <li>IEEE 802.3u 100BASE-T</li> <li>IEEE 802.3ab 1000BASE-T</li> </ul>	EEE 802.1p Class of Service     IEEE 802.1Q VLAN Tagging     IEEE 802.3x Full-duplex Flow Control		
MANAGEMENT			
System Password	Ye	25	
Web browserbased management GUI	Yes		
PC Utility	Ye	Yes	
Port Mirroring	Ye	es	
Max number of source ports allowed (many-to-one port mirroring)	4	7	
Many-to-one Port Mirroring	Ye	es	
Cable Test Utility	Yes		
FW Upgrade Thru Plus Utility (TFTP)	Yes		
Config download (to Switch) thru Plus Utility	Ye	Yes	
Config upload (to server)	Yes		
LEDS			
Per port	Speed, Lin	Speed, Link, Activity	
Per device	Power, system		
PHYSICAL SPECIFICATIONS	'		
Dimensions (W x D x H)	94 x 100 x 27 mm (3.7 x 3.9 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4 x 1.1 in)	
Weight	0.25kg	0.5kg	
ENVIRONMENTAL SPECIFICATIONS			
Operating			
Operating temperature	32° to 122°F (0° to 50°C)	0° to 40°C	
Humidity (relative)	90% maximum relative hum	90% maximum relative humidity (RH), non-condensing	
Altitude		10,000 ft (3,000 m) maximum	
Storage			
Storage temperature	– 4° to 158°F (	– 4° to 158°F (–20° to 70°C)	
Humidity (relative)		95% maximum relative humidity (RH), non-condensing	
Altitude		10,000 ft (3,000 m) maximum	
ELECTROMAGNETIC EMISSIONS AND IMMUNITY			
Certifications	CE mark o	ommercial	
Certifications	FCC Part CE/EN55 VC	CE mark, commercial FCC Part 15 class B CE/EN55032/24 VCCI ACMA	

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#### **GS300 Series Comparison**

Features	GS305E	GS308E	
WARRANTY AND SUPPORT			
All Except China	3-year warranty		
China	1-year warranty		
Technical Support (online, phone)	90 days free from date of purchase*		
ProSUPPORT OnCall 24x7 Service Plans	Category S1:		
	PMB0S11-10000S PMB0S31-10000S PMB0S51-10000S		

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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.

<sup>†</sup> NETGEAR #1 in US Market Share according to NPD data for Unmanaged and Web/Smart Switches, August 2018. NETGEAR #1 in Europe Market Share according to Context data for Unmanaged and Web/Smart Switches, June 2018.