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
- 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	G\$308E	
Gigabit ports	5	8	
Max MAC entries	8K	4K	
Buffer Size	128КВ	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 p	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)	Ye	Yes	
Block unknown multicast	Ye	Yes	
Supported Multicast groups	128	128	
L3 SERVICES - DHCP			
DHCP client	Ye	Yes	
QUALITY OF SERVICE (QOS)			
Rate Limiting	Ye	Yes	
DSCP	Yes	No	
IEEE 802.1p COS	Ye	Yes	
Port-based VLAN	Ye	Yes	
TOS	Yes	No	
WRR (Weighted Round Robin)	Ye	Yes	
Strict Priority queue technology	Ye		

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Features	G\$305E	GS308E	
IEEE STANDARDS SUPPORTED			
 IEEE 802.3 Ethernet IEEE 802.3ab 1000BASE-T IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T 	 EEE 802.1p Class of Service IEEE 802.1Q VLAN Tagging IEEE 802.3x Full-duplex Flow Control 		
MANAGEMENT			
System Password	Yes		
Web browserbased management GUI	Yes		
PC Utility	Yes		
Port Mirroring	Yes		
Max number of source ports allowed (many-to-one port mirroring)	4	7	
Many-to-one Port Mirroring	Yes		
Cable Test Utility	Yes	Yes	
FW Upgrade Thru Plus Utility (TFTP)	Yes		
Config download (to Switch) thru Plus Utility	Yes	Yes	
Config upload (to server)	Yes		
LEDS			
Per port	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 humidi	ty (RH), non-condensing	
Altitude		10,000 ft (3,000 m) maximum	
Storage			
Storage temperature	– 4° to 158°F (–2	– 4° to 158°F (–20° to 70°C)	
Humidity (relative)	95% maximum relative humidi	95% maximum relative humidity (RH), non-condensing	
Altitude		10,000 ft (3,000 m) maximum	
ELECTROMAGNETIC EMISSIONS AND IMMUNITY			
Certifications	(Emark.com	nmercial	
	FCC Part 15 CE/EN5503	CE mark, commercial FCC Part 15 class B CE/EN55032/24 VCCI ACMA	

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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		

*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.

+ 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.

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