






Product Comparison

FEATURES	GS305	GS308	GS308P	GS316	GS324
					
10/100/1000Mbps Ports	5	8	8	16	24
Enclosure	Metal	Metal	Metal	Metal	Metal
Connector Type	Plastic	Plastic	Metal	Metal	Plastic
Form Factor	Desktop or wall-mountable	Desktop or wall-mountable	Desktop or wall-mountable	Desktop or wall-mountable	Desktop, wall-mountable, rack-mountable
Power On/Off Switch	No	Yes	No	No	No
PERFORMANCE SPECIFICATIONS					
Bandwidth (Non-Blocking)	10 Gbps	16 Gbps	16 Gbps	32 Gbps	48 Gbps
Packet Buffer Memory (Dynamically shared across only used ports)	128 KB	128 KB	192 KB	768 KB	512 KB
Jumbo Frame Support	9,216 bytes	9,216 bytes	9,720 bytes	9,216 bytes	9,216 bytes
Forwarding Rate (using 64-byte packets) - 1000Mbps Port	1,448,000 pps	1,448,000 pps	1,448,000 pps	1,448,000 pps	1,448,000 pps
Latency (using 64-byte packets) - 1000Mbps Port (average)	< 2.6 µsec	< 2.6 µsec	< 3.0 µsec	< 3.9 µsec	< 4.7 µsec
MAC Address Table Size	2K	8K	4K	16K	8K
Auto MDI/MDI-X Cable Detection	Yes	Yes	Yes	Yes	Yes
Auto-sensing Half/Full Duplex Switched Ports	Yes	Yes	Yes	Yes	Yes
Mean Time Between Failures (MTBF) @ 25°C	3,670,230 hours	1,528,321 hours	2,244,211 hours	9,041,798 hours	620,798 hours
LEDS					
Per port	Power, Link/Activity	Power, Link/Activity	Power, Link/Activity (Left), Ports 1-4: PoE Power (Right)	Power, Speed, Link/Activity	Power, Speed, Link/Activity
Per device	Power	Power	Power	Power	Power
QUALITY OF SERVICE (QOS)					
802.1P Based (CoS) Supported	Yes	Yes	Yes	Yes	Yes
Honors DSCP (DiffServ) Tags	Yes	Yes	No	No	Yes
POE CONFIGURATION					
802.3af PoE Ports	n/a	n/a	Ports 1-4	n/a	n/a
PoE Max Power Per Port	n/a	n/a	up to 15.4W	n/a	n/a
Total PoE Power Budget**	n/a	n/a	up to 53W	n/a	n/a
POWER/CONSUMPTION					
DC Input/Power In	5V/0.7A	12V/0.5A	48V/1.25A	12V/1.0A	Internal (AC: 110-240V, 50-60Hz, 1.0A max)
Power Consumption (Max and Standby)	2.34W/0.45W	3.52W/0.57W	60.0W/0.28W	8.4W/1.83W	11.1W/8.47W
Heat Dissipation (Max and Standby) BTU/Hr	8.00 BTU/1.54 BTU	12.04 BTU/1.95 BTU	205.20 BTU/0.95 BTU	28.73 BTU/6.26 BTU	37.96 BTU/28.97 BTU

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ENERGY EFFICIENCY					
Energy Efficient Ethernet (EEE) IEEE 802.3az compliant	Yes	Yes	Yes	Yes	Yes
Auto Power Down	Yes	Yes	Yes	Yes	Yes
Short Cable Detection	Yes	Yes	Yes	Yes	Yes
Fan/Fanless	Fanless	Fanless	Fanless	Fanless	Fanless
PHYSICAL SPECIFICATIONS					
Dimensions (W x D x H)	101 x 94 x 29 mm (4.0 x 3.7 x 1.1 in)	158 x 101 x 26 mm (6.2 x 4.0 x 1.0 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)	286 x 101 x 26 mm (11.3 x 4.0 x 1.0 in)	252 x 180 x 44 mm (9.9 x 7.1 x 1.7 in)
Weight	0.24 kg (0.53 lb)	0.38 kg (0.84 lb)	0.46 kg (1.02 lb)	0.84 kg (1.86 lb)	1.31 kg (2.90 lb)
ENVIRONMENTAL SPECIFICATIONS					
Operating					
Operating temperature	0° to 40°C (32° to 104°F)				
Humidity (relative)	90% maximum relative humidity (RH), non-condensing				
Altitude	10,000 ft (3,000 m) maximum				
Storage					
Storage temperature	-20° to 70°C (-4° to 158°F)				
Humidity (relative)	95% maximum relative humidity (RH), non-condensing				
ELECTROMAGNETIC EMISSIONS AND IMMUNITY					
Certifications	CE Mark, FCC Part 15 Class B, IC Class B, RCM, VCCI	CE Mark, FCC Part 15 Class B, IC Class B, RCM, CCC, VCCI	CE Mark, FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC	CE Mark, FCC Part 15 Class A, IC Class A, RCM, CCC, VCCI, KC
SAFETY					
Certifications	CB, CE LVD	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD, CCC	CB, CE LVD, CCC
IEEE NETWORK PROTOCOLS					
<ul style="list-style-type: none"> • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3i 10BASE-T Ethernet • IEEE 802.3x Flow Control • IEEE 802.1p Priority QoS (all models) • IEEE 802.1p Priority QoS and DSCP (except GS308P, GS316) • IEEE 802.3 CSMA/CD • 802.3az Energy Efficient Ethernet 					
WARRANTY AND SUPPORT*					
All Except China/India	3-year Warranty				
China/India	1-year Warranty				

Actual SKU availability may vary per region. Please check the local website for product availability.

* 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; see <http://www.netgear.com/about/warranty/> for details. 24/7 basic technical support provided for 90 days from purchase date when purchased from a NETGEAR authorized reseller.

** Maximum PoE power supplied is 15.4W per port, but not to exceed 53W total power supplied across all PoE connected devices.

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