

Technical Specifications

PRODUCT SPECIFICATIONS	
Product	GS408EPP
100M/1G RJ-45 copper ports	8
PoE/PoE+ ports	8 PoE+ (124W PoE Budget)
PERFORMANCE SPECIFICATION	
Packet buffer memory (Dynamically shared across only used ports)	192KB
Forwarding modes	Store-and-forward
Bandwidth (full-duplex fabric)	16Gbps
Priority queues	4
Priority queuing	Weighted Round Robin (WRR)
MAC address database size (48-bit MAC addresses)	4K
Multicast groups	128
Number of VLANs	64
Packet forwarding rate (64 byte packet size) (Mfps or Mpps)	11.9Mfps
Speed/Latency	10Mbps: <76.9µs 100Mbps: <9.1µs 1000Mbps: <2.7µs
Jumbo frame support	Up to 9K packet size
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	26.9 dBA
Mean Time Between Failures (MTBF) @ 25° C	2,715,369 hours
L2 SERVICES - VLANS	
IEEE 802.1Q VLAN tagging	Yes
Port-based VLANs (physical)	Yes
L2 SERVICES - AVAILABILITY	
Broadcast, multicast, unknown unicast storm control	Yes
Link Aggregation/Port Trunking (Static Manual LAGs only)	2 LAGs with max 4 members in each LAG
IEEE 802.3x (full duplex and flow control)	Yes
L2 SERVICES - MULTICAST FILTERING	
IGMP snooping (v1, v2 and v3)	Yes
IGMP snooping queries	No
Block unknown multicast	Yes
Static multicast router port	No
L3 SERVICES - DHCP	
DHCP Client	Yes
LINK AGGREGATION	
Static Manual LAGs (Port Trunking)	Yes
# of Static LAGs/# of members in each LAG	2 LAGs with max 4 members in each LAG

Technical Specifications

NETWORK SECURITY	
Broadcast, multicast, unknown unicast storm control	Yes
DoS attacks prevention	Yes
QUALITY OF SERVICE (QOS)	
Port-based rate limiting	Ingress and egress
Port-based QoS	Yes
IEEE 802.1p COS	Yes
IPv4 DSCP	Yes
IPv4 ToS	Yes
TCP/UDP-based	No
Weighted Round Robin (WRR)	Yes
Strict Priority queue technology	No
Voice VLAN	Yes, based on OUI bytes in the phone source MAC address
IEEE NETWORK PROTOCOLS	
<ul style="list-style-type: none"> • IEEE 802.3 Ethernet • IEEE 802.3i 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T 	<ul style="list-style-type: none"> • IEEE 802.1Q VLAN Tagging • IEEE 802.3x Full-Duplex Flow Control • IEEE 802.1p Class of Service • IEEE 802.3az Energy Efficient Ethernet (EEE)
	<ul style="list-style-type: none"> • IEEE 802.3af Power-Over-Ethernet (PoE) • IEEE 802.3at Power-Over-Ethernet (PoE+) • IEEE 802.3ad Port Trunking (Manual LAG)
MANAGEMENT	
Password management	Yes
Web browser-based graphical user interface (GUI)	Yes
ProSAFE Plus Configuration Utility (PCU) for multi-switch management	Yes
Firmware upgrade	TFTP (Plus Utility) / HTTP (Web GUI)
Config file transfers (backup, restore)	Plus Utility or Web GUI
Firmware upgrade through Plus Utility (TFTP)	Yes
Config download (to switch) through Plus Utility	Yes
Config upload (to server) through Plus Utility	Yes
Firmware upgrade through web GUI (HTTP)	Yes
Config download (to switch) through web GUI (HTTP)	Yes
Config upload (to server) through web GUI (HTTP)	Yes
Cable test utility	Yes
Port mirroring	Yes
Max number of source ports allowed (one-to-one port mirroring)	1
Mirroring port can still work normally?	Yes

Technical Specifications

LEDs	
Per port	Left port LED: Speed, Link, Activity Right port LED: PoE Status
Per device	Power, PoE Max, Fan
POE CONFIGURATION	
Number of PoE/PoE+ ports	8 PoE+
Total PoE power budget (watts)	124W
PHYSICAL SPECIFICATIONS	
Dimensions (W x D x H)	380 x 100 x 43mm (15.0 x 3.9 x 1.7in)
Weight	1.6kg (3.53lb)
POWER CONSUMPTION	
Power Supply	Fixed internal PSU, 100-240VAC, 50-60Hz, 3A max Power cord localized to country of sale
Max power (worst case, all ports used, line-rate traffic) (Watts)	5.8W (no PoE) 148.0W (with PoE max)
Min power (link-down standby) (Watts)	4.7W
Heat Dissipation (max and min) (BTU/hr)	Max: 505.27 BTU/hr Min: 16.05 BTU/hr
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes
Short cable power reduction	Yes
Auto power-down	Yes
Fan(s)	1
ENVIRONMENTAL SPECIFICATIONS	
Operating	
Operating Temperature	0° to 50°C (32° to 122°F)
Humidity	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	95% maximum relative humidity (RH), non-condensing
Altitude	10,000 ft (3,000 m) maximum

Technical Specifications

ELECTROMAGNETIC EMISSIONS AND IMMUNITY CERTIFICATIONS	
Certifications	CE mark, commercial
	47 CFR FCC Part 15, Subpart B, Class A ICES-003:2016 Issue 6, Class A ANSI C63.4:2014
	EN 55022:2010 + AC:2011, Class A EN 55024:2010 EN 61000-3-2:2014, Class A EN 6100-3-3:2013
	CISPR 22:2008, Class A AS/NZS CISPR 22:2009 + A1:2010, Class A
	VCCI V-3/2015.04, Class A V-4/2012.4
	Russia EAC mark
	Korea KC mark
	CNS 13438
	Electromagnetic Compliance (Class A or B)
SAFETY CERTIFICATIONS	
Certifications	CB mark, commercial IEC 60950-1:2005(ed.2) + A1:2009 + A2:2013
	UL/cUL Listed (UL 60950-1)/CAN/CSA C22.2 No. 60960-1-07
	EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
	AN/NZS 60950.1:2015
	Russia EAC mark
WARRANTY AND SUPPORT	
	Lifetime Limited Warranty*
	Lifetime Online Technical Support*
	Lifetime Next-Business-Day (NBD) Replacement
ProSUPPORT OnCall 24x7 Service Packs**	PMB0S12-10000S (1 yr) PMB0S32-10000S (3 yr) PMB0S52-20000S (5 yr)