### NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit (2.5G) Ethernet Plus Switch



# High-speed and Powerful Network with a Compact Switch

NETGEAR Plus Switches with PoE meet business networks growing needs by providing fundamental network features such as simplified VLANs, QoS set-up and IGMP Snooping that will help optimize the performance of business networks. Plus Switches are the perfect upgrade from the plug-and-play unmanaged switch, delivering essential networking features at a very affordable

price. The new model MS108EUP supports 2.5 Gigabit speed connectivity and Power-Over-Ethernet (PoE) that can provide up to 60W/port. The new switch model can power devices such as VoIP phones, surveillance IP cameras, wireless access points and many other applications. This new Plus switch includes advance PoE control to help optimize the performance and

troubleshooting of business networks. The new and improved business-friendly GUI allows easy management and simple configuration. With the growing deployment of applications and an all-in-one solution, providing management and power to these applications would be ideal.

### Highlights

- 802.3bt standard offering up to 60W/ port on Port 1-4, 802.3at (30W/port) on Port 5-8
- 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
- Business-friendly and easy-to-use web browser-based management GUI
- VLAN support for traffic segmentation
- Quality of Service (QoS) for traffic prioritization

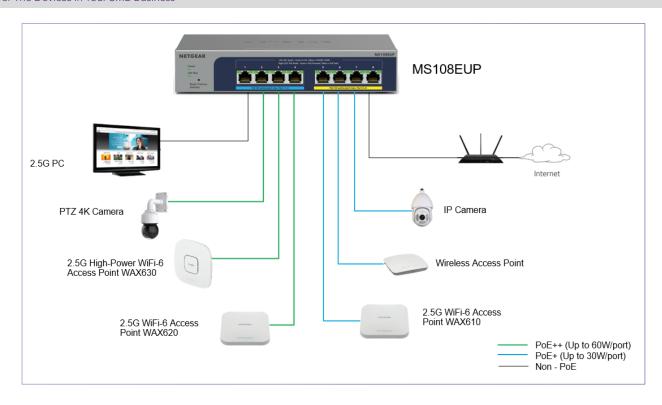
- Auto "denial-of-service" (DoS) prevention
- Troubleshoot connection issues via cable test
- Energy Efficient Ethernet (IEEE 802.3az) support for maxium power savings
- Loop prevention and broadcast storm controls
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Jumbo frame support

- Advanced features such as per port PoE controls
- Fanless, silent operation with desktop and wall-mount options
- Lifetime 24/7 Chat Technical Support\*
- Next-Business-Day Hardware Replacement\*\*
- Limited Lifetime Hardware Warranty



## **Application Sample**

Power The Devices in Your SMB Business





# **Technical Specifications**

Features	MS108EUP
1G/2.5G Ethernet RJ-45 copper ports (100M/1G/2.5G) - 1000BASE-T	8
Enclosure	Metal
Connector type	Metal
PoE	
# of PoE ports	8
# of PoE/ PoE+ / PoE++ ports	4 PoE+ and 4 PoE++
Total PoE/PoE+ budget	230W
Advanced PoE controls	Yes
PoE scheduling	Yes
Performance Specifications	
Forwarding modes	Store-and-forward
Bandwidth	40Gbps
Max MAC entries	16K
Buffer size	1.5MB
Energy Efficient Ethernet (IEEE 802.3az) compliant	Yes
Priority queuing	WRR
Jumbo frame support	12,000 bytes
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	0
Mean Time Between Failures (MTBF) @ 25° C	373,644 hrs (42.6 yrs)
L2 Services - VLANs	
VLAN (# supported)	64
IEEE 802.1Q VLAN tagging	Yes
Port-based VLANs	Yes
L2 Services - Availability	
Link aggregation/ port trunking	Yes
Number of static manual LAGs and # of members	4 LAG with max 4 members in each LAG
L2 Services - Multicast Filtering	
IGMP snooping (v1, v2 and v3)	Yes
Block unknown multicast	Yes
Supported multicast groups	128
L3 Services - DHCP	
DHCP client	Yes
Quality of Service	
Rate limiting	Yes
DSCP	Yes



# NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit (2.5G) Ethernet Plus Switch

Quality of Service         MS 108EUP           IEEE 802.1p COS         Yes           Prot-based QOS         Yes           TOS         Yes           WRR (Weighted Round Robin)         Yes           Strick Priority quoue technology         No           IEEE REP Network Protocols         IEEE 802.3d Dynamic Link Aggregation (LACP)           • IEEE 802.3s 2 SCBASET         • IEEE 802.3d Dynamic Link Aggregation (LACP)           • IEEE 802.3d Photocols         • IEEE 802.3d Photocols           • IEEE 802.3d Processes         • Yes           • Veb browser based management GUI         • Yes           Many number of source port		
Port based QS         Yes           TOS         Yes           WRR (Weighted Round Robin)         Yes           Strict Priority queue technology         No           IEEE Roveroric Protocols         IEEE 802.3 at Dynamic Link Aggregation (LACP)           • IEEE 802.3 bremet         • IEEE 802.2 at QNAN Tales Insigh Aggregation (LACP)           • IEEE 802.3 br 1000BASET         • IEEE 802.2 at Pola Hudplex Rivor Control           • IEEE 802.3 at Pola 1000BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pole           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pola 100BASET           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pola 100BASET           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pola 100BASET           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3 at Pola 100BASET           • IEEE 802.3 at Pola 100BASET         • IEEE 802.3	Quality of Service	MS108EUP
TOS         Yes           WRR (Weighted Round Robin)         Yes           Sinck Priority queue technology         No           IEEE Notwork Protocols           IEEE ROB2 3ct beforemet         • IEEE ROB2 3ct Dynamic Unik Aggregation (LACP)           • IEEE ROB2 3ct Defement         • IEEE ROB2 3ct Dynamic Unik Aggregation (LACP)           • IEEE ROB2 3ct Defement         • IEEE ROB2 3ct Pole • IEEE ROB2	IEEE 802.1p COS	Yes
WRR (Weighted Round Robin)         Yes           Strict Priority queue technology         No           IEEE Network Protocols           ■IEEE RO23 ab Ethernet         ■IEEE B023 ab Dynamic Link Aggregation (LACP)           ■IEEE B023 bar J SCBASET         ■IEEE B023 ab UNDAN ENGRAGE           ■IEEE B023 bar 1000RASET         ■IEEE B023 ab UNDAN ENGRAGE           ■IEEE B023 ar Douglas Service         ■IEEE B023 ab PoE+           ■IEEE B023 ar PoEty         ■IEEE B023 ab PoE+           ■IEEE B023 ar PoEty         ■IEEE B023 ab PoE+           ■IEEE B023 ar PoEty         ■IEEE B023 ab PoE+           ■IEEE B023 ab PoEty         ■IEEE B023 ab PoEty           ■IEEE B023 ab PoEty         ■IEEE B023 ab PoEty <td>Port-based QoS</td> <td>Yes</td>	Port-based QoS	Yes
Section Priority queue technology	TOS	Yes
	WRR (Weighted Round Robin)	Yes
IEEE 802.3 at Dynamic Link Aggregation (LACP)   IEEE 802.3 ab J008ASE-T   IEEE 802.3 ab J008ASE-T   IEEE 802.3 ab J008ASE-T   IEEE 802.3 ab J008ASE-T   IEEE 802.3 ar Lind-duplex Flow Control   IEEE 802.3 ar Fold-duplex Flow Control   IEEE 802.3 ar Fold-by-the Flow Control   IEEE	Strict Priority queue technology	No
EEE B02.3 bz 2.5 GBASET	IEEE Network Protocols	
System password         Yes           Web browser based management GUI         Yes           PC utility         No           Pct utility         No           Port mirroring         Yes           Max number of source ports allowed (one-to-one port mirroring)         1           Many-to-one port mirroring         No, 1-to-1 only           Cable test utility         Yes           FW Upgrade thru plus utility (TFTP)         No           Config download (to switch) thru plus utility         No           Config upload (to server)         Yes           ECD         Yes           Ber device         Power, PEE Max           Prost Assembly Specifications         \$200 x 140 x 40 mm           Weight         \$210 x 140 x 40 mm           (827 x 5.51 x 1.58 in)         (827 x 5.51 x 1.58 in)           Weight         \$20 x 140 x 40 mm           (827 x 5.51 x 1.58 in)         (827 x 5.51 x 1.58 in)           Weight         \$20 x 140 x 40 mm           Poperating Temperature         \$20 x 140 x 40 mm           Operating Temperature         \$32° to 104°F (0° to 40°C)           Humidity (relative)         90% maximum relative humidity (RH), non-condensing           Altitude         \$300 mm x mirrun           Storage Tem	<ul> <li>IEEE 802.3bz 2.5GBASE-T</li> <li>IEEE 802.3ab 1000BASE-T</li> <li>IEEE 802.3u 100BASE-T</li> <li>IEEE 802.1p Class of Service</li> </ul>	<ul> <li>IEEE 802.1Q VLAN Tagging</li> <li>IEEE 802.3x Full-duplex Flow Control</li> <li>IEEE 802.3af PoE</li> <li>IEEE 802.3at PoE+</li> </ul>
Web browser based management GUI Yes  PC utility No  Port mirroring Yes  Max number of source ports allowed (one-to-one port mirroring) 1  Many-to-one port mirroring No, 1-to-1 only  Cable test utility Yes  FW Upgrade thru plus utility (TFTP) No  Config download (to switch) thru plus utility No  Config guload (to switch) thru plus utility No  Config upload (to switch) thru plus utility No  Config supload (to switch) thru plus utility No  Per device Power, PoE Max  Physical Specifications  Physical Specifications  Wight 210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)  Weight 0,9 kg (1.984 lb)  Environmental Specifications  Poperating Temperature 32° to 104° F (0° to 40°C)  Humidity (relative) 90% maximum relative humidity (RH), non-condensing Altitude 10,000 ft (3,000 m) maximum  Storage  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum	Management	
PC utility Port mirroring Port port Port port Port port Port Speed, Link, Activity, PoE Per device Power, PoE Max Physical Specifications Pursons (Wx D x H) Port port Port Specifications Port port Port Specifications Port port Port Port Port Port Port Port Port P	System password	Yes
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Many-to-one port mirroring No, 1-to-1 only Cable test utility Yes  FW Upgrade thru plus utility (TFTP) No Config download (to switch) thru plus utility Config download (to switch) thru plus utility Config upload (to sever) Yes  LEDs  Fer Der Fer Der Fer Device Speed, Link, Activity, PoE Fer device Power, PoE Max  Physical Specifications  Physical Specifications  Weight 0,9 kg 1,984 lb)  Environmental Specifications  Poerating Operating Operating Operating Support Su	Port mirroring	Yes
Cable test utility Yes   FW Upgrade thru plus utility (TFTP) No   Config download (to switch) thru plus utility No   Config upload (to server) Yes   LEDs Speed, Link, Activity, PoE   Per port Speed, Link, Activity, PoE Max   Physical Specifications Power, PoE Max   Physical Specifications 210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)   Weight 0.9 kg (1.984 lb)   Environmental Specifications   Operating 32° to 104°F (0° to 40°C)   Humidity (relative) 90% maximum relative humidity (RH), non-condensing   Storage -4° to 158°F (-20° to 70°C)   Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Max number of source ports allowed (one-to-one port mirroring)	1
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## NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit (2.5G) Ethernet Plus Switch

Electromagnetic Emissions and Immunity	MS108EUP
Certifications	CE mark FCC Part 15 class B CE/EN55032/24 CSA VCCI ACMA KC CCC BSMI
Warranty and Support	
Hardware warranty (All except China/India)	Limited lifetime* warranty
China	5-year warranty
External power adapter warranty	2-year warranty
Technical support (online, phone)	90 days free technical support with registration
ProSUPPORT OnCall 24x7 service plans	Category 2 PMB0312-10000S PMB0332-10000S PMB0352-10000S
Package Contents	
All Models	NETGEAR Plus Switch Power adapter (power cable varies by region) Wall installation kit Rubber feet Installation guide

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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.

 $<sup>\</sup>hbox{``The NETGEAR On Call 24x7 contract provides unlimited phone, chat and email technical support for your networking product.}\\$