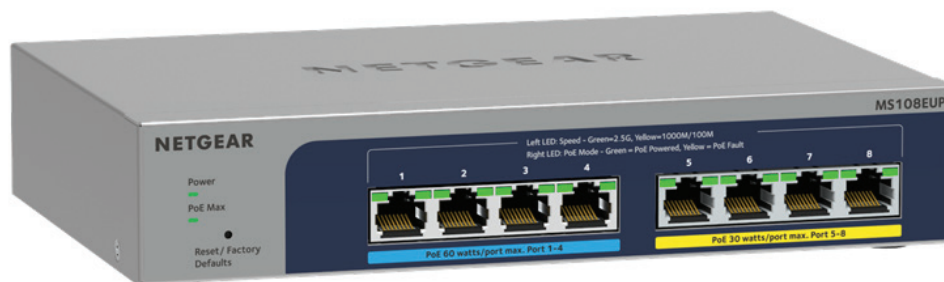


NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit (2.5G) Ethernet Plus Switch

Reviewers Guide



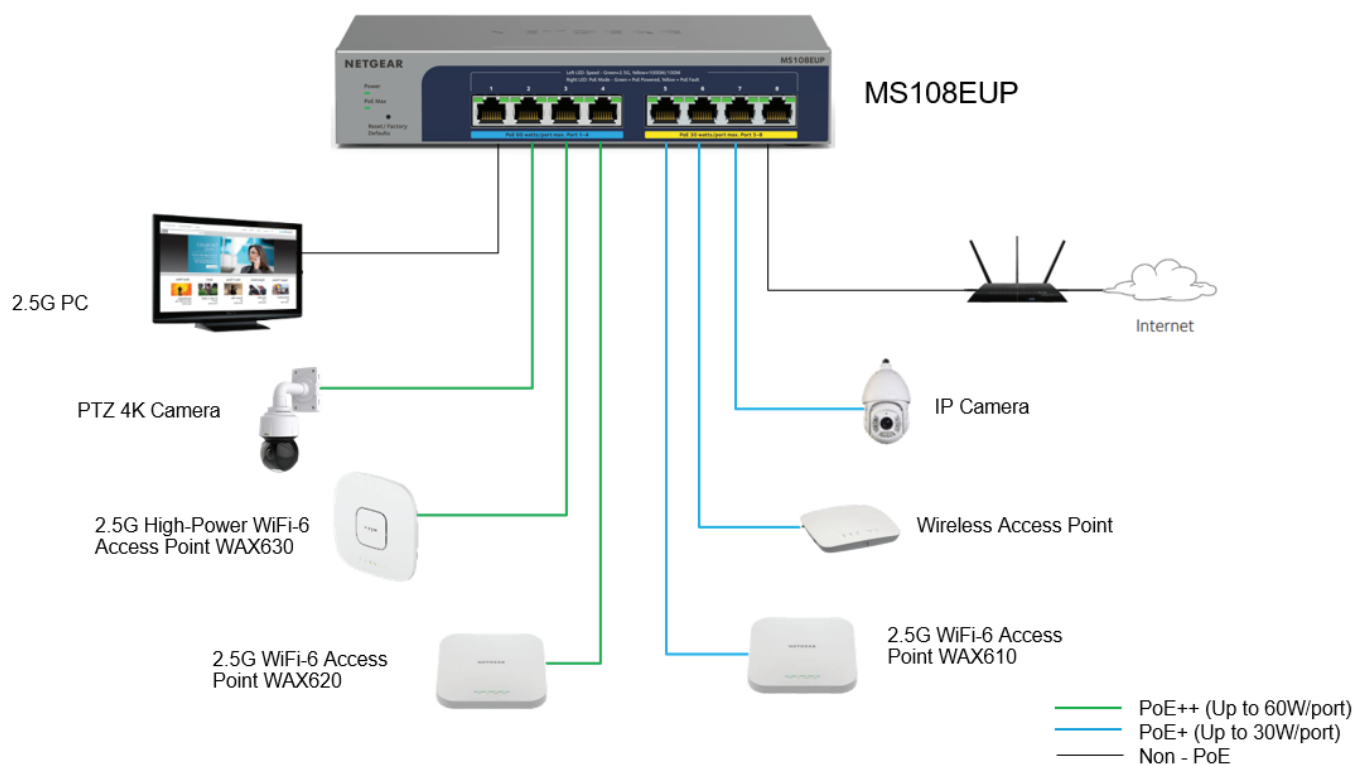
NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit Ethernet Plus Switch

WHAT'S NEW

The NETGEAR® MS108EUP Ultra60 PoE++ Multi-Gigabit Ethernet Plus Switch is for organizations who buy infrastructure for the long term and want future proofing. The MS108EUP allows you to deploy PoE+ and even PoE++ devices with a 230W power budget and both 1G and 2.5G speeds. The ideal companions to the MS108EUP are the NETGEAR WAX630 and WAX610 WiFi 6 Access Points that feature a 2.5G Ethernet port.

MS108EUP provides a total PoE budget of 230W and advanced PoE features such as uninterrupted PoE for powerful PoE applications. The switch provides four PoE+ and four PoE++ auto-adapt multispeed Ethernet ports that support 2.5G and 1G. Each of the 8 Multi-Gig ports automatically detect which speed is needed by the connected device and provides the optimal connection speed.

Each of the 4 Ultra60 PoE++ ports can provide up to 60 watts to power up the connected devices such as Wireless Access Point, LED lighting, PTZ cameras, high-power IP speakers and IoT devices. The MS108EUP is fanless, allowing it to be placed in noise-sensitive environments. This Plus switch offers an updated, easy-to-use Web browser-based management GUI with configurable L2 network features like VLANs and PoE operation scheduling. The IGMP snooping feature can automatically define explicit action multicast groups to be supported per port. The MS108EUP is backed by the NETGEAR ProSAFE Limited Lifetime Warranty and 24/7 technical support.



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MS108EUP TECHNICAL SPECIFICATIONS

Features	MS108EUP
Form Factor	Desktop and Wall-mount
Speed	8x1G/2.5G
Total Ports	8
PoE Type	PoE+ and PoE++
PoE Ports	8 (4x PoE+, 4x PoE++)
Total PoE Power Budget	230W
Management	Local Web GUI
Warranty	Limited Lifetime

HIGH-LEVEL DESCRIPTION

- Advanced PoE controls including uninterrupted PoE
- Provides 2.5G connectivity to NETGEAR WiFi 6 Insight Managed Access Points
- Versatile PoE support with PoE+ and Ultra60 PoE++ for today's and tomorrow's PoE needs
- Uninterrupted PoE keeps PoE power on even when the switch is updating firmware or performing a software reboot
- Proven reliability of the NETGEAR switches
- Provides an industry-leading Limited Lifetime warranty at no extra cost with product registration

SETUP AND CONFIGURATION GUIDANCE

- Connect the MS108EUP
 - PoE power supplied by the switch is prioritized in ascending port order (from port 1 to port 8). The switch can supply a total of 230W across all active PoE+ and PoE++ ports.
 - Ports 1-4: Each port can supply up to 60W PoE++ (802.3bt) power.
 - Ports 5-8: Each port can supply up to 30W PoE+ (802.3at) power.

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- This table shows the standard power ranges without overrides applied, calculated with the maximum cable length of 328 feet (100 meters). If a device receives insufficient PoE power from the switch, consider using a shorter cable.

Device Class	Compatible PoE Standard	Class Description	Maximum Power Supplied by the Switch	Power Delivered to the Device
0	PoE, PoE+, PoE++	Default Power (full)	15.4W	0.44W - 13.0W
1	PoE, PoE+, PoE++	Very Low Power	4.0W	0.44W - 3.84W
2	PoE, PoE+, PoE++	Low Power	7.0W	3.84W - 6.49W
3	PoE, PoE+, PoE++	Mid Power	15.4W	6.49W - 13.0W
4	PoE+, PoE++	High Power	30.0W	13.0W - 25.5W
5	PoE++	Ultra High Power	45.0W	25.5W - 40.0W
6	PoE++	Ultra High Power	60.0W	40.0W - 51.0W

- Power the MS108EUP using the provided AC power adapter
- The MS108EUP can only be managed with the full featured Local WEB UI interface

TESTING GUIDANCE

NOTE: We recommend that you use a Category 5e (Cat 5e) cable or higher-rated cable for Gigabit Ethernet connections.

1. Setup and test the multiple VLAN configurations using the Local web-GUI
Description: The MS108EUP is able configure multiple VLANs on the switch and assign each VLAN to different sections of the business.
2. Test the QoS configurations using Local web-GUI
Description: Quality of Service (QoS) is a feature of routers and switches which prioritizes traffic so that more important traffic can pass first. The result is a performance improvement for critical network traffic. QoS is useful with VoIP phones or in LANs with high volumes of local traffic.
3. Test the Advance PoE controls on the MS108EUP with Local web-GUI
Description: Power management of the PoE connected devices by enabling and disabling PoE power per port, PoE prioritization, PoE power limit per port and more. Simplifies management of Wireless APs, IP security cameras, LED lighting, secure access door locks, IoT devices and more.
4. Test the Uninterrupted PoE feature on the MS108EUP
Description: Keep PoE power on even when the switch is updating firmware or performing a software reboot.

REAL-LIFE USE CASES

Office environment

- Businesses that connect and power 2.5G access points and other devices
- Auto-adapt multi-gig ports to give your devices the speed they need and save on re-cabling costs
- Power all your devices from a single switch, whatever power they need (up to 60W per port, 230W total budget)

Small Offices or Retail Shops

- Conference rooms
- Library
- Waiting Rooms