

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



## Control and Configure Beyond Plug-and-Play Connectivity

NETGEAR brings the first Unmanaged Multi-Gigabit PoE++ switch MS108UP with 60Watts per port Ultra60 PoE++ technology, ideal for powerful PoE++ installations with PoE budgets up to 230W, a compact size, plug-and-play installation, and reliable performance at affordable prices. The new model

MS108UP 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 Unmanaged switch provides

PoE Auto-Balance to help automatically balance the PoE power based on the device needs independent of PoE class detected. With the growing deployment of applications and an all-in-one solution, providing multi-speed and high power to these applications would be ideal.

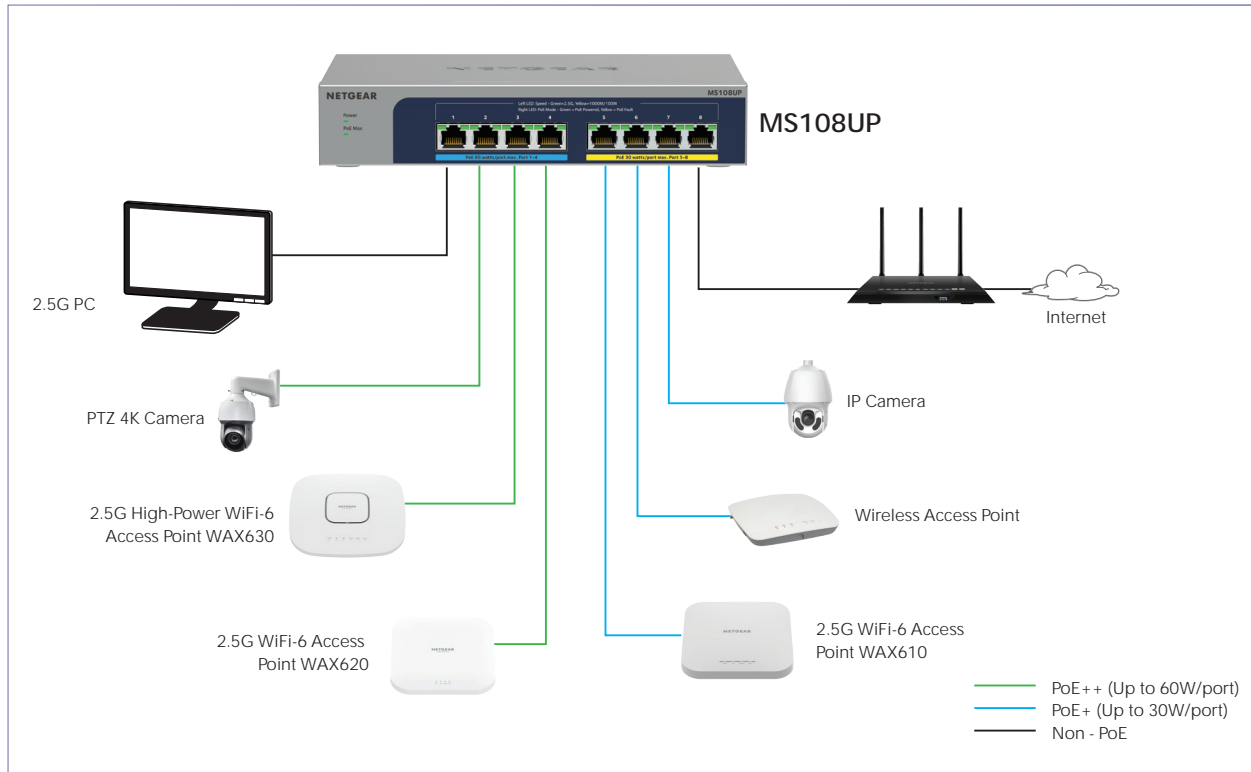
## Highlights

- 802.3bt standard offering up to 60W/ port on Port 1-4, 802.3at (30W/port) on Port 5-8.
- 230W total PoE budget available across 8 ports.
- Simple set up with no software or configuration needed.
- Easy monitoring through per port LEDs for port activity and speed.
- Unique PoE Auto-Balance technology automatically balances the PoE power based on the device needs independent of PoE class detected. The switches deliver the power the device needs, at the most granular level.
- Energy Efficient Ethernet (IEEE 802.3az) support for maximum power savings.
- 8 ports of multi-gig 1G/2.5G speeds to connect devices instantly and give them each exactly the speed they need: 1G or 2.5G automatically.
- Non-blocking switching architecture for maximum throughput at wire speed
- Fanless, silent operation with desktop and rack-mounting options
- Lifetime 24/7 Chat Technical Support\*
- Next-Business-Day Hardware Replacement\*\*
- Limited Lifetime Hardware Warranty

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## Application Sample

Power The Devices in Your SMB Business



## Technical Specifications

Features	MS108UP
1G/2.5G Ethernet RJ-45 Copper ports (100M/1G/2.5G)	8
Enclosure	Metal
Connector type	Metal
Form-Factor	Desktop/Wall-mount
<b>PoE</b>	
# of PoE ports	8
# of IEEE 802.3at ports (30W/port)	4
# of IEEE 802.3bt Type 3 ports (60W/port)	4
Total PoE/PoE+/PoE++ Budget	230W
PoE Auto-Balance	Yes
<b>Performance Specifications</b>	
Bandwidth	40Gbps
Max MAC entries	16K
Buffer size	1.5MB
Energy Efficient Ethernet (IEEE 802.3az) compliant	Yes
Queue WRR Ratio	1:3:5:7:8:10:12:15
Forwarding Rate (using 64-byte packets) - 1000Mbps Port	1,488,000pps
Forwarding Rate (using 64-byte packets) - 2.5Gbps Port	3,720,000pps
Latency (using 64-byte packets) - 1000Mbps Port (average)	<3.593µs
Latency (using 64-byte packets) - 2.5Gbps Port (average)	<5.874µs
Jumbo frame support	12,000 bytes
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	0
Auto MDI/MDI-X Cable Detection	Yes
Auto-sensing Half/Full Duplex Switched Ports	Yes
Non Head-of-Line Blocking Architecture	Yes
Mean Time Between Failures (MTBF) @ 25° C	373,644 hrs (42.6 yrs)
<b>IEEE Network Protocols</b>	
<ul style="list-style-type: none"> <li>• IEEE 802.3 Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.3u 100BASE-T</li> <li>• IEEE 802.1p Priority</li> <li>• IEEE 802.3az Energy Efficient Ethernet (deactivated by default)</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3 CSMA/CD</li> <li>• IEEE 802.3x Full-duplex Flow Control</li> <li>• IEEE 802.3af PoE</li> <li>• IEEE 802.3at PoE+</li> <li>• IEEE 802.3bt PoE++</li> </ul>
<b>Quality of Service</b>	
802.1p-based QoS/CoS Supported	Yes
Honors DSCP (DiffServ) Tags	Yes

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

<b>LEDs</b>	
Per port	Speed, Link, Activity, PoE
Per device	Power, PoE Max
<b>Power Consumption</b>	
DC Input/Power In	External (54V/4.7A)
Power Consumption (Max and Standby)	16.58W(no PoE), 270.5W(with PoE MAX) / 6.95W Standby
Heat Dissipation (Max and Standby) (BTU/Hr)	923.49BTU/23.73BTU
<b>Energy Efficiency</b>	
IEEE 802.3az (Energy Efficient Ethernet)	Yes
Auto Power Down	Yes
Short Cable Detection/Power Saving	Yes
Fan/Fanless	Fanless
<b>Physical Specifications</b>	
Dimensions (W x D x H)	210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)
Weight	0.9 kg (1.984 lb)
<b>Environmental Specifications</b>	
<b>Operating</b>	
Operating 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
<b>Storage</b>	
Storage Temperature	- 4° to 158°F (-20° to 70°C)
Humidity (relative)	95% maximum relative humidity (RH), non-condensing
Altitude	10,000 ft (3,000 m) maximum
<b>Electromagnetic Certifications and Compliance</b>	
CE, FCC part 15 Class B, ISED, VCCI, KC, CCC, BSMI, RCM	
<b>Safety Certifications</b>	
CB, CSA, CCC, BSMI, RCM	
<b>Warranty and Support</b>	
Hardware warranty (All except China/India)	Limited Lifetime warranty*
China/India	1-year warranty
External power adapter warranty	N/A
Technical support (online, phone)	90 days free with registration from the date of purchase*
24/7 Online Chat Technical support	Limited Lifetime warranty*
ProSUPPORT OnCall 24x7 service plans	Category 2 PMB0312-10000S PMB0332-10000S PMB0352-10000S

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

Package Contents	
All Models	<ul style="list-style-type: none"> <li>• NETGEAR Unmanaged Switch</li> <li>• Detachable power cable (varies by region)                             <ul style="list-style-type: none"> <li>• Power Adapter</li> <li>• Wall installation kit                                     <ul style="list-style-type: none"> <li>• Rubber feet</li> </ul> </li> <li>• Installation guide</li> </ul> </li> </ul>
Ordering Information	
MS108UP-100NAS	North America
MS108UP-100EUS	Europe including United Kingdom
MS108UP-100AUS	Australia
MS108UP-100JPS	Japan
MS108UP-100KOS	Republic of Korea
MS108UP-100PES	Asia Pacific
MS108UP-100PRS	China
MS108UP-100TWS	Taiwan
MS108UP-100UKS	Asia Pacific
MS108UP-100INS	India

\*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.

\*\*The NETGEAR OnCall 24x7 contract provides unlimited phone, chat and email technical support for your networking product.

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