M4250 AV Line Managed Switches

The NETGEAR AV Line M4250 series was designed with input from AV Professionals. The result is a line of switches built from the ground up to support 1Gb audio and video over IP with customized hardware and software along with dedicated service and support.
A new AV Line of M4250 switches with out-of-the-box functionality and an industry-first: a concurrent second user interface solely designed with the AV Pro in mind.

NETGEAR has enhanced the experience for AV professionals by including a new user interface designed from the ground up. Pro AV customers don’t have to settle for an IT-centric interface with settings and IT-specific functionality they will never need. The new M4250 AV interface presents the common AV controls right up front with user-selectable profiles for common AV platforms making it a snap to ensure the settings are correct for a specific audio or video application.

When each M4250 is simply configured with AV profiles on certain ports, the AV Line offers automatic and dynamic configuration of multiple M4250 switches connected together. This automatic configuration, known as Auto-LAG and Auto-Trunk, combined with as NETGEAR IGMP Plus™, make setting up a complicated AV over IP network easier and quicker than ever before.
M4250 Series Features

The NETGEAR AV Line M4250 series was designed with input from AV Professionals. The result is a line of switches built from the ground up to support 1Gb audio and video over IP with customized hardware and software along with dedicated service and support.

NETGEAR M4250 series key features:

- Ranges from 8 to 48 ports with a variety of PoE+ and Ultra90 PoE++ options for 15.4W, 30W, 60W, 75W and 90W AVoIP endpoints
- Uplink options include 1G for audio installations or standalone video installations as well as 10G uplinks for larger scale video deployments
- Also includes 12-port multi-gigabit Ethernet and 16-port 1G/10G fiber models for plug and play aggregation in a star topology
- Rackmount models designed for a clean integration with traditional, rack-mounted, AV equipment
- The M4250 switches come with a sleek, black display panel with status in front and all cabling plus additional status in the back
- Reversed mounting is possible when ports are desired on the front of the rack
- A second pair of rackmount ears allows the switches to be mounted recessed by 2-inches to allow for the cabling
- Software-controlled fan adjustments enable the fans to be turned off when ambient temperature and PoE loads are appropriate for a totally fanless operation
- Threaded holes on the bottom (4xM5 for 50x100mm VESA) and in front (1xM10 for clamps) allow for universal mounting options outside the rack as well

New! M4250 desktop versions for use outside of the AV racks in conference rooms, mobile studios, on the wall, under a table or behind a screen

NETGEAR M4250 series AV software features:

- Pre-configured for audio and video over IP out of the box, the M4250 switches enable encoders and decoders to be connected with zero configuration
- When more configuration is required, an AV web-based GUI is available
- This interface has been specially designed for AV installers with specific AV-related controls made more accessible and with port-based profiles
- For audio, profiles for Dante, Q-SYS and AES67 are built-in, as well as an AVB profile (AVB license sold separately)
- For video, the M4250 offers profiles for NVX, SVSI, Q-SYS, NDI, Kramer KDS, Aurora Multimedia, ZeeVee, Atlona, Dante and SDVoE
- Other AV CODECs and manufacturers are supported as well as audio/video/control mixed profiles
- To further simplify star deployments, NETGEAR IGMP Plus™ brings multicast automation between all M4250 switches, and with M4300/M4500
- With Auto-Trunk and Auto-LAG, simply connect M4250 switches together and you are done!

NETGEAR M4250 series other software features:

- All M4250 switches share the same high-end NETGEAR Layer 2 / Layer 3 switching engine for a consistent experience
- All switches in the M4250 series have another main, IT web-based GUI for midsize Enterprise campus networks, IoT and IPTV
- Additional features include static, RIP and PIM-SM, DM and SSM multicast routing, DHCP Server and PTPv2 Transparent Clock (1-step E2E)
- AVB is the only feature requiring a license, all other advanced features are available license-free
- Advanced classifier-based, time-based hardware implementation for L2 (MAC), L3 (IP) and L4 (UDP/TCP transport ports) security and prioritization
- Selectable Port-Channel / LAG (802.3ad - 802.1AX) L2/ L3/L4 hashing for fault tolerance and load sharing with any type of Ethernet channeling
- Voice VLAN with SIP, H323 and SCCP protocols detection and LLDP-MED IP phones automatic QoS and VLAN configuration
- Efficient authentication tiering with successive DOT1X, MAB and Captive Portal methods for streamlined BYOD
- Comprehensive IPv4/IPv6 static and dynamic routing including Policy-based routing and 6-to-4 tunneling
M4250 Series Features

- Advanced IPv4/IPv6 security implementation including malicious code detection, DHCP Snooping, IP Source Guard protection and DoS attacks mitigation

NETGEAR M4250 series management features:

- DHCP/BootP innovative auto-installation including firmware and configuration file upload automation
- Industry standard SNMP, RMON, MIB, LLDP, AAA, sFlow, RSPAN and PTPv2
- Service port for out-of-band Ethernet management (OOB)
- Standard RS232 straight-through serial RJ45 and USB Type-C ports for local management console
- Standard USB-A port for local storage, logs, configuration or image files
- Dual firmware image for updates with minimum service interruption
- Single-pane-of-glass NMS300 management platform with mass configuration support
- Industry standard command line interface (CLI) for IT admins used to other vendors commands
- Fully functional Web console (main GUI) for IT admins who prefer an easy to use graphical interface
- Dedicated AV web-based GUI interface available at [switch IP address:8080] for AV installations

NETGEAR M4250 series warranty and support:

- NETGEAR ProSAFE Limited Lifetime Hardware Warranty**
- Included Lifetime Technical Support
- Included Lifetime Next Business Day Hardware Replacement
- Offering free network design services and installation support, the NETGEAR Engineering Services Team is ready to help ensure your 1G deployments with the M4250 AV over IP switches go as smooth as possible. Just drop us an email at ProAVDesign@netgear.com to get started!

GSM4210PX
GSM4210PD
### Hardware-at-a-Glance

**Model Name | Form-Factor | Switching Fabric | 10/100/1000 BASE-T RJ45 ports | 100/1000/2.5G BASE-T RJ45 ports | 10GBASE-X SFP ports | 10GBASE-X SFP+ ports | PSU | Status | Management**
---|---|---|---|---|---|---|---|---|---|---
**M4250-9G1F-PoE+** | Desktop 210 x 40 x 140mm | 20 Gbps | 8 ports PoE+ (110W) 1 additional port | - | - | 1 port SFP 1G | In Front: Power LED PoE Max LED Fan LED (GSM4210PX only) | Ethernet: 1G Out-of-band (Rear) Storage: USB-A (Rear) | GSM4210PD
**M4250-8G2XF-PoE+** | Desktop 210 x 40 x 140mm | 56 Gbps | 8 ports PoE+ (220W) | - | | 2 ports SFP+ 1G, 10G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4210PX
**M4250-10G2F-PoE+** | 1U rackmount 440 x 43.2 x 200mm | 24 Gbps | 8 ports PoE+ (125W) 2 additional ports | - | - | 2 ports SFP+ 1G, 10G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4212P
**M4250-10G2XF-PoE+** | 1U rackmount 440 x 43.2 x 200mm | 60 Gbps | 8 ports PoE+ (240W) 2 additional ports | - | - | 2 ports SFP+ 1G, 10G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4212PX
**M4250-26G4F-PoE+** | 1U rackmount 440 x 43.2 x 257mm | 60 Gbps | 24 ports PoE+ (300W) 2 additional ports | - | - | 4 ports SFP+ 1G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4230P
**M4250-26G4F-PoE++** | 1U rackmount 440 x 43.2 x 400mm | 60 Gbps | 24 ports PoE++ (1,440W) 2 additional ports | - | - | 4 ports SFP+ 1G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4230UP
**M4250-26G40F-PoE+** | 1U rackmount 440 x 43.2 x 400mm | 132 Gbps | 24 ports PoE+ (480W) 2 additional ports | - | - | 4 ports SFP+ 1G, 10G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4230PX
**M4250-40G8F-PoE+** | 1U rackmount 440 x 43.2 x 400mm | 96 Gbps | 40 ports PoE+ (480W) | - | 8 ports SFP+ 1G | 1 x Fixed (C14) On/off switch | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4248P
**M4250-40G80F-PoE+** | 1U rackmount 440 x 43.2 x 400mm | 240 Gbps | 40 ports PoE+ (960W) | - | - | 8 ports SFP+ 1G, 10G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4248PX
**M4250-40G80F-PoE++** | 2U rackmount 440 x 86.4 x 350mm | 240 Gbps | 40 ports PoE++ (2,880W) 2 additional ports | - | - | 8 ports SFP+ 1G, 10G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | GSM4248UX
**M4250-12M2XF** | 1U rackmount 440 x 43.2 x 100mm | 100 Gbps | - | 12 ports 100M, 1G, 2.5G | - | 2 ports SFP+ 1G, 10G | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | MSM4214X
**M4250-16XF** | 1U rackmount 440 x 43.2 x 200mm | 320 Gbps | - | - | 16 ports SFP+ 10G only (First 12 ports support 1G) | Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Storage: USB-A (Front) | XSM4216F

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**Notes:**
- Reversed mounting is possible when ports are desired on the front of the rack by using the standard rackmount ears, or the included alternate rackmount ears to mount the switch recessed by 2-inches to allow for the cabling.
- Ultra90 PoE++ 802.3bt is compatible with 802.3af PoE (15.4W), 802.3at PoE+ (30W) and 802.3bt (60W, 75W and 90W).
- Ultra90 PoE++ 802.3bt is compatible with 802.3af PoE (15.4W), 802.3at PoE+ (30W) and 802.3bt (60W, 75W and 90W).
## Acoustic-at-a-Glance

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Fanless State</th>
<th>Ambient</th>
<th>Sensor</th>
<th>PoE Power Load</th>
<th>Conditions</th>
<th>PoE Power Load</th>
<th>Fan Duty</th>
<th>Sensor</th>
<th>Case Temp (Top)</th>
<th>Acoustic</th>
<th>Fan Duty</th>
<th>Case Temp (Top)</th>
<th>Acoustic</th>
<th>Model Number</th>
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<tr>
<td>M4250-9G1F-PoE+</td>
<td>The switch is fanless</td>
<td>25ºC</td>
<td>50ºC</td>
<td>110W</td>
<td>All ports can be used</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>25ºC</td>
<td>30ºC</td>
<td>60ºC</td>
<td>30ºC</td>
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<td>M4250-8G2XF-PoE+</td>
<td>0dBA / 37.4ºC Case Temp</td>
<td>25ºC</td>
<td>5Ja / 60ºC</td>
<td>180W</td>
<td>R45s ports only (no SFP+)</td>
<td>220W</td>
<td>10</td>
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<td>33.6ºC</td>
<td>19.3dBA</td>
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<td>35.3dBA</td>
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<td>M4250-10G2F-PoE+</td>
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<td>&lt;= 42ºC</td>
<td>80W</td>
<td>All ports can be used</td>
<td>125W</td>
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<td>90W</td>
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<td>240W</td>
<td>25</td>
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<td>0-250W</td>
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<td>4W</td>
<td>8 ports PoE (no SFP)</td>
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<td>S1&lt;= 37ºC</td>
<td>4W</td>
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<td>0-280W</td>
<td>20</td>
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<td>52.9ºC</td>
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<td>720W</td>
<td>36.7ºC</td>
<td>69dBA</td>
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<td>M4250-40G8F-PoE+</td>
<td>0dBA / 43.4ºC Case Temp</td>
<td>25ºC</td>
<td>S1&lt;= 41ºC</td>
<td>4W</td>
<td>8 ports PoE (no SFP)</td>
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<td>39.3ºC</td>
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<td>M4250-40G8F-PoE+</td>
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<td>3W</td>
<td>8 ports PoE (No SFP)</td>
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<td>43.1ºC</td>
<td>30dBA</td>
<td>100</td>
<td>35.4ºC</td>
<td>68dBA</td>
<td>GSM4248P</td>
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### Acoustic-at-a-Glance

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<thead>
<tr>
<th>Model Name</th>
<th>Fanless State</th>
<th>Ambient Sensor</th>
<th>PoE Power Load</th>
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<th>PoE Power Load</th>
<th>Fan Duty</th>
<th>Sensor</th>
<th>Case Temp (Top)</th>
<th>Acoustic</th>
<th>Case Temp (Top)</th>
<th>Acoustic</th>
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<tr>
<td>M4250-40G8XF-PoE+</td>
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<td>36.1ºC</td>
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<td>880W-960W</td>
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<td>55dBA</td>
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<td>560W-640W</td>
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<td>57dBA</td>
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<td>31.4ºC</td>
<td></td>
<td>GSM4248UX</td>
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</tr>
</tbody>
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* Software-controlled fan adjustments enable the fans to be turned off when ambient temperature and PoE loads are appropriate for a totally fanless operation.

** dBA values are SPL (Sound Pressure Level) values, testing following the ISO-7779 standard. Bystander Mode. Chamber Temp 25ºC during testing. Full, 100%, Data and PoE loaded. Worst case.
**Software-at-a-Glance**

<table>
<thead>
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<tbody>
<tr>
<td>M4250 series</td>
<td>Out-of-band AV Web-based GUI</td>
<td>Designed for AV installers</td>
<td>Ingress/egress</td>
<td>1 Kbps shaping</td>
<td>Single Rate Policing</td>
<td>Auto-VoIP</td>
<td>Static, Dynamic, Voice, MAC</td>
<td>Static, Dynamic</td>
<td>Auto-Trunk and Auto-LAG between M4250 Switches</td>
<td>Successive Tiering (DOT1X; MAB; Captive Portal)</td>
<td>Port, Subnet, VLAN routing</td>
<td>IPv4: RIP</td>
<td>All models</td>
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<tr>
<td>M4250 series</td>
<td>IT Web GUI (main)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Policy-based routing (PBR)</td>
<td></td>
<td></td>
<td>Static LAG, or Dynamic LACP</td>
<td>Multicast static routes</td>
<td>IPv4/IPv6:</td>
<td>IPv6:</td>
<td></td>
</tr>
<tr>
<td>M4250 series</td>
<td>HTTPs, CLI, Telnet, SSH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LLDP-MED</td>
<td></td>
<td></td>
<td>DHCP Snooping Dynamic ARP Inspection</td>
<td>DHCPv4 Server</td>
<td>IPvM-DM</td>
<td>IPv6:</td>
<td></td>
</tr>
<tr>
<td>M4250 series</td>
<td>SNMP, MIBs, RSPAN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IEEE 1588 PTPv2</td>
<td></td>
<td></td>
<td>IP Source Guard</td>
<td>DHCP Relay</td>
<td>IPv6:</td>
<td></td>
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<tr>
<td>M4250 series</td>
<td>Radius Users, TACACS+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IPvMPv3 MLV2</td>
<td></td>
<td></td>
<td>Seven (7) L2/L3/L4 hashing algorithms</td>
<td>Stateful DHCPv6 Server</td>
<td>IPv6:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Requires AVB license, sold separately. All other software features are available, license-free.
## Performance-at-a-Glance

<table>
<thead>
<tr>
<th>Model Name</th>
<th>MAC ARP/NDP</th>
<th>Routing/Switching Capacity</th>
<th>Throughput 64-byte</th>
<th>Application Route Scaling</th>
<th>Packet Buffer Latency</th>
<th>CPU</th>
<th>IP Multicast Routing Entries</th>
<th>Jumbo Frames</th>
<th>Multicast IGMP Group membership</th>
<th>VLANs</th>
<th>DHCP</th>
<th>sFlow</th>
<th>Model Number</th>
</tr>
</thead>
</table>
Components

M4250 AV Licenses

M4250 AVB Licenses are electronic SKUs. A license registration key is received by email and can be copied and pasted directly in the AV UI when the switch is online.
Components

M4250-9G1F-PoE+
AV Line Desktop Managed Switch

Ordering information
• Americas: GSM4210PD-100NAS
• Europe: GSM4210PD-100EUS
• India: GSM4210PD-100INS
• Japan: GSM4210PD-100JPS
• South Korea: GSM4210PD-100KOS
• Taiwan: GSM4210PD-100TWS
• Hong Kong: GSM4210PD-100UKS
• Australia: GSM4210PD-100AUS
• China: GSM4210PD-100PRS
• Other APAC: GSM4210PD-100PES
• Warranty: Lifetime ProSAFE Hardware Warranty
• AVB License: AVB4210PD-10000S (sold separately)

• 8-port 10/100/1000BASE-T (RJ45) PoE+ with 110W PoE budget
• 1-port 10/100/1000BASE-T (RJ45)
• 1-port 1000BASE-X (SFP)
• 20 Gbps non-blocking fabric across 10 ports
• Out-of-band 1G Ethernet management port
• USB-C console port and USB-A storage port
• Desktop form factor for conference rooms and mobile studios
• Mounting brackets for flanges on the side
• Outside of the AV tracks: on the wall, under a table or behind a screen
• External power adapter using standard AC power cord (C13)
• Totally fanless
• Switch dimensions (WxDxH): 210 x 140 x 40 mm
• Switch weight: 0.965 Kg (2.13lb)
• Power adapter dimensions (WxDxH): 169 x 72 x 35.5 mm
• Power adapter weight: 0.55Kg (1.21lb)
M4250-8G2XF-PoE+
AV Line Desktop Managed Switch

Ordering information
• Americas: GSM4210PX-100NAS
• Europe: GSM4210PX-100EUS
• India: GSM4210PX-100INS
• Japan: GSM4210PX-100JPS
• South Korea: GSM4210PX-100KOS
• Taiwan: GSM4210PX-100TWS
• Hong Kong: GSM4210PX-100UKS
• Australia: GSM4210PX-100AUS
• China: GSM4210PX-100PRS
• Other APAC: GSM4210PX-100PES
• Warranty: Lifetime ProSAFE Hardware Warranty
• AVB License: AVB4210PX-10000S (sold separately)

- 8-port 10/100/1000BASE-T (RJ45) PoE+ with 220W PoE budget
- 2-port 10GBASE-X (SFP+)
- 56 Gbps non-blocking fabric across 10 ports
- Out-of-band 1G Ethernet management port
- USB-C console port and USB-A storage port
- Desktop form factor for conference rooms and mobile studios
- Mounting brackets for flanges on the side
- Outside of the AV tracks: on the wall, under a table or behind a screen
- External power adapter using standard AC power cord (C13)
- Selectable fan modes for fanless, quiet (19.3dBA), or cool operation
- Switch dimensions (WxDxH): 210 x 140 x 40 mm
- Switch weight: 0.967 Kg (2.13lb)
- Power adapter dimensions (WxDxH): 197 x 89 x 39 mm
- Power adapter weight: 0.955Kg (2.11lb)
Components

M4250-10G2F-PoE+
AV Line Managed Switch

Ordering information
• Americas: GSM4212P-100NAS
• Europe: GSM4212P-100EUS
• Asia Pacific: GSM4212P-100AJS
• China: GSM4212P-100PRS
• Warranty: Lifetime ProSAFE Hardware Warranty
• AVB License: AVB4212P-10000S (sold separately)

Ordering information (AVB-ready version)
• Americas: GSM4212P-111NAS
• Europe: GSM4212P-111EUS
• Asia Pacific: GSM4212P-111AJS
• China: GSM4212P-111PRS
• AVB License already installed in the switch
• AVB Profile already configured on all ports
M4250-10G2XF-PoE+
AV Line Managed Switch

Ordering information
- Americas: GSM4212PX-100NAS
- Europe: GSM4212PX-100EUS
- Asia Pacific: GSM4212PX-100AJS
- China: GSM4212PX-100PRS
- Warranty: Lifetime ProSAFE Hardware Warranty
- AVB License: AVB4212PX-10000S (sold separately)

8-port 10/100/1000BASE-T (RJ45) PoE+ with 240W PoE budget
2-port 10/100/1000BASE-T (RJ45)
2-port 1000/10GBASE-X (SFP+)
60 Gbps non-blocking fabric across 12 ports
Out-of-band 1G Ethernet management port
USB-C and RJ45 RS232 console ports and USB-A storage port
Front black display panel and all ports in the back
Possible reversed mounting with ports in the front
Rack-mounting standard brackets
Longer brackets for recessed mounting (2 inches / 5 cm)
Threaded hole in front (1xM10) for clamps
Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
Selectable fan modes for fanless, quiet, or cool operation
Dimensions (WxDxH): 440 x 200 x 43.2 mm
Weight: 2.9Kg (6.39lb)
M4250-10G2XF-PoE++
AV Line Managed Switch

Ordering information
- Americas: GSM4212UX-100NAS
- Europe: GSM4212UX-100EUS
- Asia Pacific: GSM4212UX-100AJS
- China: GSM4212UX-100PRS
- Warranty: Lifetime ProSAFE Hardware Warranty
- AVB License: AVB4212UX-10000S (sold separately)

Components

- 8-port 10/100/1000BASE-T (RJ45) Ultra90 PoE++ with 720W PoE budget
- 2-port 10/100/1000BASE-T (RJ45)
- 2-port 1000/10GBASE-X (SFP+)
- Compatible 802.3af (15.4W), 802.3at (30W), 802.3bt (60, 75 and 90W)
- 60 Gbps non-blocking fabric across 12 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ45 RS232 console ports and USB-A storage port
- Front black display panel and all ports in the back
- Possible reversed mounting with ports in the front
- Rack-mounting standard brackets
- Longer brackets for recessed mounting (2 inches / 5 cm)
- Threaded hole in front (1xM10) for clamps
- Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
- Selectable fan modes for fanless, quiet, or cool operation
- Dimensions (WxDxH): 440 x 257 x 43.2 mm
- Weight: 3.83Kg (8.44lb)
M4250-12M2XF
AV Line Managed Switch

Ordering information
- Americas: MSM4214X-100NAS
- Europe: MSM4214X-100EUS
- Asia Pacific: MSM4214X-100AJS
- China: MSM4214X-100PRS
- Warranty: Lifetime ProSAFE Hardware Warranty
- AVB License: AVB4214X-10000S (sold separately)

Components

- 12-port 100/1000/2.5GBASE-T (RJ45)
- 2-port 1000/10GBASE-X (SFP+)
- 100 Gbps non-blocking fabric across 14 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ45 RS232 console ports and USB-A storage port
- Front black display panel and all ports in the back
- Possible reversed mounting with ports in the front
- Rack-mounting standard brackets
- Longer brackets for recessed mounting (2 inches / 5 cm)
- Threaded hole in front (1xM10) for clamps
- Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
- Selectable fan modes for fanless, quiet, or cool operation
- Dimensions (WxDxH): 440 x 100 x 43.2 mm
- Weight: 1.74Kg (3.85lb)
Components

M4250-16XF
AV Line Managed Switch

Ordering information
• Americas: XSM4216F-100NAS
• Europe: XSM4216F-100EUS
• Asia Pacific: XSM4216F-100AJS
• China: XSM4216F-100PRS
• Warranty: Lifetime ProSAFE Hardware Warranty
• AVB License: AVB4216F-10000S (sold separately)

- 16-port 10GBASE-X (SFP+)
- The first 12 ports support 1000BASE-X (1G) SFP modules
- 320 Gbps non-blocking fabric across 16 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ45 RS232 console ports and USB-A storage port
- Front black display panel and all ports in the back
- Possible reversed mounting with ports in the front
- Rack-mounting standard brackets
- Longer brackets for recessed mounting (2 inches / 5 cm)
- Threaded hole in front (1xM10) for clamps
- Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
- Selectable fan modes for fanless, quiet, or cool operation
- Dimensions (WxDxH): 440 x 100 x 43.2 mm
- Weight: 1.74Kg (3.85lb)
Components

M4250-26G4F-PoE+
AV Line Managed Switch

Ordering information
• Americas: GSM4230P-100NAS
• Europe: GSM4230P-100EUS
• Asia Pacific: GSM4230P-100AJS
• China: GSM4230P-100PRS
• Warranty: Lifetime ProSAFE Hardware Warranty
• AVB License: AVB4230P-10000S (sold separately)

• 24-port 10/100/1000BASE-T (RJ45) PoE+ with 300W PoE budget
• 2-port 10/100/1000BASE-T (RJ45)
• 4-port 1000BASE-X (SFP)
• 60 Gbps non-blocking fabric across 30 ports
• Out-of-band 1G Ethernet management port
• USB-C and RJ45 RS232 console ports and USB-A storage port
• Front black display panel and all ports in the back
• Possible reversed mounting with ports in the front
• Rack-mounting standard brackets
• Longer brackets for recessed mounting (2 inches / 5 cm)
• Threaded hole in front (1xM10) for clamps
• Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
• Selectable fan modes for fanless, quiet, or cool operation
• Dimensions (WxDxH): 440 x 43.2 x 257 mm
• Weight: 4.30Kg (9.47lb)
**Components**

M4250-26G4F-PoE++
AV Line Managed Switch

Ordering information
- Americas: GSM4230UP-100NAS
- Europe: GSM4230UP-100EUS
- Asia Pacific: GSM4230UP-100AJS
- China: GSM4230UP-100PRS
- Warranty: Lifetime ProSAFE Hardware Warranty
- AVB License: AVB4230UP-10000S (sold separately)

- 24-port 10/100/1000BASE-T (RJ45) Ultra90 PoE++ with 1,440W PoE budget
- 2-port 10/100/1000BASE-T (RJ45)
- 4-port 1000BASE-X (SFP)
- Compatible 802.3af (15.4W), 802.3at (30W), 802.3bt (60, 75 and 90W)
- 2 internal, fixed PSUs (C14 inlets) with embedded RPS/EPS function
- When one PSU is used, PoE budget is 720W
- When two PSU are used, PoE budget is 1,440W
- 60 Gbps non-blocking fabric across 30 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ45 RS232 console ports and USB-A storage port
- Front black display panel and all ports in the back
- Possible reversed mounting with ports in the front
- Rack-mounting standard brackets
- Longer brackets for recessed mounting (2 inches / 5 cm)
- Threaded hole in front (1xM10) for clamps
- Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
- Selectable fan modes for quiet or cool operation
- Dimensions (WxDxH): 440 x 43.2 x 400 mm
- Weight: 6.75Kg (14.87lb)
Components

M4250-26G4XF-PoE+
AV Line Managed Switch

Ordering information
• Americas: GSM4230PX-100NAS
• Europe: GSM4230PX-100EUS
• Asia Pacific: GSM4230PX-100AJS
• China: GSM4230PX-100PRS
• Warranty: Lifetime ProSAFE Hardware Warranty
• AVB License: AVB4230PX-10000S (sold separately)

- 24-port 10/100/1000BASE-T (RJ45) PoE+ with 480W PoE budget
- 2-port 10/100/1000BASE-T (RJ45)
- 4-port 1000/10GBASE-X (SFP+)
- 132 Gbps non-blocking fabric across 30 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ45 RS232 console ports and USB-A storage port
- Front black display panel and all ports in the back
- Possible reversed mounting with ports in the front
- Rack-mounting standard brackets
- Longer brackets for recessed mounting (2 inches / 5 cm)
- Threaded hole in front (1xM10) for clamps
- Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
- Selectable fan modes for fanless, quiet, or cool operation
- Dimensions (WxDxH): 440 x 43.2 x 400 mm
- Weight: 5.45Kg (12.02lb)
M4250-40G8F-PoE+  
AV Line Managed Switch  

Ordering information  
- Americas: GSM4248P-100NAS  
- Europe: GSM4248P-100EUS  
- Asia Pacific: GSM4248P-100AJS  
- China: GSM4248P-100PRS  
- Warranty: Lifetime ProSAFE Hardware Warranty  
- AVB License: AVB4248P-10000S (sold separately)
**Components**

M4250-40G8XF-PoE+
AV Line Managed Switch

Ordering information
- Americas: GSM4248PX-100NAS
- Europe: GSM4248PX-100EUS
- Asia Pacific: GSM4248PX-100AJS
- China: GSM4248PX-100PRS
- Warranty: Lifetime ProSAFE Hardware Warranty
- AVB License: AVB4248PX-10000S (sold separately)

- 40-port 10/100/1000BASE-T (RJ45) PoE+ with 960W PoE budget
- 8-port 1000/10GBASE-X (SFP+)
- 240 Gbps non-blocking fabric across 48 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ45 RS232 console ports and USB-A storage port
- Front black display panel and all ports in the back
- Possible reversed mounting with ports in the front
- Rack-mounting standard brackets
- Longer brackets for recessed mounting (2 inches / 5 cm)
- Threaded hole in front (1xM10) for clamps
- Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
- Selectable fan modes for quiet or cool operation
- Dimensions (WxDxH): 440 x 43.2 x 400 mm
- Weight: 6.31Kg (13.91lb)
M4250-40G8XF-PoE++
AV Line Managed Switch

Ordering information
• Americas: GSM4248UX-100NAS
• Europe: GSM4248UX-100EUS
• Asia Pacific: GSM4248UX-100AJS
• China: GSM4248UX-100PRS
• Warranty: Lifetime ProSAFE Hardware Warranty
• AVB License: AVB4248UX-10000S (sold separately)

Components
• 40-port 10/100/1000BASE-T (RJ45) Ultra90 PoE++ with 2,880W PoE budget
• 8-port 1000/10GBASE-X (SFP+)
• Compatible 802.3af (15.4W), 802.3at (30W), 802.3bt (60, 75 and 90W)
• 3 internal, fixed PSUs (C14 inlets) with embedded RPS/EPS function
• When one PSU is used, PoE budget is 720W
• When two PSUs are used, PoE budget is 1,650W
• When three PSUs are used, PoE budget is 2,880W
• 240 Gbps non-blocking fabric across 48 ports
• Out-of-band 1G Ethernet management port
• USB-C and RJ45 RS232 console ports and USB-A storage port
• Front black display panel and all ports in the back
• Possible reversed mounting with ports in the front
• Rack-mounting standard brackets
• Longer brackets for recessed mounting (2 inches / 5 cm)
• Threaded hole in front (1xM10) for clamps
• Threaded holes on the bottom (4xM5) for 50x100mm VESA plates
• Selectable fan modes for quiet or cool operation
• Dimensions (WxDxH): 440 x 86.4 x 350 mm (2U)
• Weight: 10.28Kg (22.72lb)
# Accessories

## GBIC SFP and SFP+ Optics for M4250 series

### Ordering information

<table>
<thead>
<tr>
<th>Multimode Fiber (MMF)</th>
<th>Single mode Fiber (SMF)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OM1 or OM2</strong>&lt;br&gt;62.5/125µm</td>
<td><strong>OM3 or OM4</strong>&lt;br&gt;50/125µm</td>
</tr>
<tr>
<td><strong>AXM763</strong>&lt;br&gt;10GbE-LRM long reach multimode&lt;br&gt;802.3aq - LC duplex connector&lt;br&gt;up to 100m (328 ft)&lt;br&gt;AXM763-10000S (1 unit)</td>
<td><strong>AXM763</strong>&lt;br&gt;10GbE-LRM long reach multimode&lt;br&gt;802.3aq - LC duplex connector&lt;br&gt;up to 165m (541 ft)&lt;br&gt;AXM763-10000S (1 unit)</td>
</tr>
<tr>
<td><strong>OM3</strong>&lt;br&gt;50/125µm</td>
<td><strong>AXM761</strong>&lt;br&gt;10GbE-SR short range multimode&lt;br&gt;LC duplex connector&lt;br&gt;up to 300m (984 ft)&lt;br&gt;AXM761-10000S (1 unit) AXM761P10-10000S (pack of 10 units)</td>
</tr>
<tr>
<td><strong>OM4</strong>&lt;br&gt;9/125µm</td>
<td><strong>AGM731F</strong>&lt;br&gt;10GbE-SX short range multimode&lt;br&gt;LC duplex connector&lt;br&gt;up to 275m (902 ft)&lt;br&gt;AGM731F (1 unit)</td>
</tr>
<tr>
<td><strong>AXM764</strong>&lt;br&gt;10GbE-LR LITE single mode&lt;br&gt;LC duplex connector&lt;br&gt;up to 2km (1.2 mile)&lt;br&gt;AXM764-10000S (1 unit)</td>
<td><strong>AGM731F</strong>&lt;br&gt;10GbE-SX short range multimode&lt;br&gt;LC duplex connector&lt;br&gt;OM3: up to 550m (1,804 ft)&lt;br&gt;OM4: up to 1,000m (3,280 ft)&lt;br&gt;AXM763-10000S (1 unit) AXM763P10-10000S (pack of 10 units)</td>
</tr>
</tbody>
</table>

### GBIC SFP and SFP+ Optics for M4250 series

#### 10 Gigabit SFP+

| **AXM763**<br>10GbE-LRM long reach multimode<br>802.3aq - LC duplex connector<br>up to 100m (328 ft)<br>AXM763-10000S (1 unit) | **AXM763**<br>10GbE-LRM long reach multimode<br>802.3aq - LC duplex connector<br>up to 165m (541 ft)<br>AXM763-10000S (1 unit) | **AXM762**<br>10GbE-LR long reach single mode<br>LC duplex connector<br>up to 10km (6.2 miles)<br>AXM762-10000S (1 unit) AXM762P10-10000S (pack of 10 units) |

#### Gigabit SFP

| **AGM731F**<br>10GbE-SX short range multimode<br>LC duplex connector<br>up to 275m (902 ft)<br>AGM731F (1 unit) | **AGM731F**<br>10GbE-SX short range multimode<br>LC duplex connector<br>OM3: up to 550m (1,804 ft)<br>OM4: up to 1,000m (3,280 ft)<br>AXM763-10000S (1 unit) AXM763P10-10000S (pack of 10 units) | **AGM732F**<br>10GbE-LX long range single mode<br>LC duplex connector<br>up to 10km (6.2 miles)<br>AGM732F (1 unit) |

### GBIC SFP and SFP+ Optics for M4250 series

#### Gigabit SFP

| **AGM734**<br>1000BASE-T RJ45 SFP (Gigabit) | **AGM734**<br>1000BASE-T RJ45 SFP (Gigabit) |
| Ordering information<br>- Worldwide: AGM734-10000S<br>- Warranty: 5 years | Ordering information<br>- Worldwide: AGM734-10000S<br>- Warranty: 5 years |
| • Fits into M4250 SFP+ and SFP interfaces<br>• M4250-16XF (XSM4216F) supports 1G modules on ports 1-12 only | • Fits into M4250 SFP+ and SFP interfaces<br>• 1 port Gigabit RJ45<br>• Supports only 1000Mbps full-duplex mode<br>• Up to 100m (328 ft) with Cat5 RJ45 or better<br>• Conveniently adds 1G copper connectivity to M4250 fiber interfaces |

#### 10GBASE-T RJ45 SFP+ (10 Gigabit)

| **AXM765**<br>10GBASE-T RJ45 SFP+ (10 Gigabit) | **AXM765**<br>10GBASE-T RJ45 SFP+ (10 Gigabit) |
| Ordering information<br>- Worldwide: AXM765-20000S<br>- Warranty: 5 years | Ordering information<br>- Worldwide: AXM765-20000S<br>- Warranty: 5 years |
| • Fits into M4250 SFP+ interfaces<br>• 1 port 10GBASE-T RJ45<br>• Copper connectivity up to 80m (262 ft) distance<br>• CAT6a or better wiring required for 10GBASE-T up to 80 meters<br>• Conveniently adds 10G copper connectivity to M4250 fiber interfaces |
# Accessories

## Direct Attach Cables for M4250 series

<table>
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<tr>
<th>ORDERING INFORMATION</th>
<th>SFP+ to SFP+</th>
</tr>
</thead>
<tbody>
<tr>
<td>WORLDWIDE: SEE TABLE BELOW</td>
<td>1 meter (3.3 ft)</td>
</tr>
<tr>
<td>WARRANTY: 5 YEARS</td>
<td>3 meters (9.8 ft)</td>
</tr>
<tr>
<td></td>
<td>5 meters (16.4 ft)</td>
</tr>
</tbody>
</table>

### 10 Gigabit DAC

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXC761</td>
<td>10G SFP+ Cu (passive) SFP+ connectors</td>
</tr>
<tr>
<td>AXC763</td>
<td>10G SFP+ Cu (passive) SFP+ connectors</td>
</tr>
<tr>
<td>AXC765</td>
<td>10G SFP+ Cu (active) SFP+ connectors</td>
</tr>
<tr>
<td>AXC7610</td>
<td>10G SFP+ Cu (active) SFP+ connectors</td>
</tr>
<tr>
<td>AXC7615</td>
<td>10G SFP+ (duplex fiber optic) SFP+ connectors</td>
</tr>
</tbody>
</table>

- AXC761-10000S (1 unit)
- AXC763-10000S (1 unit)
- AXC765-10000S (1 unit)
- AXC7610-10000S (1 unit)
- AXC7615-10000S (1 unit)

- Fits into M4250 SFP+ interfaces

** 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; covers hardware, fans and internal power supplies - not software or external power supplies. See [http://www.netgear.com/about/warranty/](http://www.netgear.com/about/warranty/) for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.

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