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
- 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

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!
## Hardware-at-a-Glance

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Form-Factor</th>
<th>Switching Fabric</th>
<th>10/100/1000 BASE-T RJ45 ports</th>
<th>100/1000/2.5G BASE-T RJ45 ports</th>
<th>1000BASE-X SFP ports</th>
<th>1000/10G BASE-X SFP+ ports</th>
<th>PSU Status Information</th>
<th>LEDs</th>
<th>MANAGEMENT</th>
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<tbody>
<tr>
<td>M4250-10G2F-PoE+</td>
<td>1U rackmount 440 x 43.2 x 200mm</td>
<td>24 Gbps</td>
<td>8 ports PoE+ (125W)</td>
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<td>2 ports SFP 1G</td>
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<td>1 x Fixed (C14) On/off switch</td>
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<tr>
<td>M4250-10G2XF-PoE+</td>
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<td>60 Gbps</td>
<td>8 ports PoE+ (240W)</td>
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<td>1 x Fixed (C14) On/off switch</td>
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<td>M4250-10G2XF-PoE++</td>
<td>1U rackmount 440 x 43.2 x 257mm</td>
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<td>8 ports PoE+** (720W)</td>
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<td>60 Gbps</td>
<td>24 ports PoE+ (3000W)</td>
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<td>4 ports SFP 1G</td>
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<tr>
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<td>60 Gbps</td>
<td>24 ports PoE+ (1,440W)** (1 PSU/720W; 2 PSU/1,440W) 2 additional ports</td>
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<td>4 ports SFP 1G</td>
<td>2 x Fixed (C14) On/off switch</td>
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<tr>
<td>M4250-26G4XF-PoE+</td>
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<td>4 ports SFP 1G</td>
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<td>M4250-26G4XF-PoE++</td>
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<tr>
<td>M4250-40G8F-PoE+</td>
<td>1U rackmount 440x43.2x400mm</td>
<td>240 Gbps</td>
<td>40 ports PoE+ (1960W)</td>
<td>2 additional ports</td>
<td>-</td>
<td>-</td>
<td>8 ports SFP 1G, 10G</td>
<td>1 x Fixed (C14) On/off switch</td>
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<tr>
<td>M4250-40G8F-PoE++</td>
<td>1U rackmount 440x86.4x350mm</td>
<td>240 Gbps</td>
<td>40 ports PoE+ (2,880W)** (1 PSU/720W; 2 PSU/1,440W) 3 additional ports</td>
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<td>8 ports SFP 1G, 10G</td>
<td>3 x Fixed (C14) On/off switch</td>
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<td>M4250-12M2XF</td>
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<td>100 Gbps</td>
<td>12 ports 100M, 1G, 2.5G</td>
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<tr>
<td>M4250-16XF</td>
<td>1U rackmount 440x43.2x200mm</td>
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<td>-</td>
<td>-</td>
<td>16 ports SFP 1G only (First 12 ports support 1G)</td>
<td>1 x Fixed (C14) On/off switch</td>
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</table>

* 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).
# 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>
</tr>
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<tbody>
<tr>
<td>M4250-10G2F-PoE+</td>
<td>0dBA / 41.8ºC Case Temp</td>
<td>25ºC</td>
<td>&lt;= 42ºC</td>
<td>80W</td>
<td>All ports can be used</td>
<td>125W</td>
<td>25</td>
<td>&lt;= 36ºC</td>
<td>35.9ºC</td>
<td>27.38dBA</td>
<td>100</td>
<td>27.2ºC</td>
<td>55dBA</td>
<td>GSM4212P</td>
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<tr>
<td>M4250-10G2XF-PoE+</td>
<td>0dBA / 39.6ºC Case Temp</td>
<td>25ºC</td>
<td>&lt;= 44ºC</td>
<td>90W</td>
<td>All ports can be used</td>
<td>240W</td>
<td>25</td>
<td>&lt;= 37ºC</td>
<td>40.6ºC</td>
<td>27.4dBA</td>
<td>100</td>
<td>30.9ºC</td>
<td>56dBA</td>
<td>GSM4212PX</td>
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<tr>
<td>M4250-10G2XF-PoE++</td>
<td>0dBA / 44.6ºC Case Temp</td>
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<td>&lt;= 67ºC</td>
<td>45W</td>
<td>All ports can be used</td>
<td>0-250W</td>
<td>25</td>
<td>&lt;= 49ºC</td>
<td>42.9ºC</td>
<td>34.57dBA</td>
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<td>66.23dBA</td>
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<td>M4250-26G4F-PoE+</td>
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<td>25ºC</td>
<td>S1 &lt;= 43ºC S2 &lt;= 47ºC</td>
<td>45W</td>
<td>8 ports PoE (no SFP+)</td>
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<td>25</td>
<td>S1 &lt;= 43ºC S2 &lt;= 47ºC</td>
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<td>Not Supported</td>
</tr>
<tr>
<td>M4250-40G8F-PoE+</td>
<td>0dBA / 43.4ºC Case Temp</td>
<td>25ºC</td>
<td>S1 &lt;= 41ºC S2 &lt;= 46ºC</td>
<td>45W</td>
<td>8 ports PoE (no SFP+)</td>
<td>0-350W</td>
<td>20</td>
<td>S1 &lt;= 41ºC S2 &lt;= 46ºC</td>
<td>39.3ºC</td>
<td>25dBA</td>
<td>100</td>
<td>32.3ºC</td>
<td>67dBA</td>
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<tr>
<td>M4250-40G8F-PoE+</td>
<td>0dBA / 45.2ºC Case Temp</td>
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<td>S1 &lt;= 37ºC S2 &lt;= 50ºC</td>
<td>30W</td>
<td>8 ports PoE (No SFP)</td>
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<td>20</td>
<td>S1 &lt;= 37ºC S2 &lt;= 50ºC</td>
<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>
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<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>M4250-40G8XF-PoE+</td>
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<td>36.1ºC</td>
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<td>400W-480W</td>
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<td>560W-640W</td>
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<td>S1 &lt;= 36ºC</td>
<td>42.1ºC</td>
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<td>720W-800W</td>
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<td>800W-880W</td>
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</tr>
</tbody>
</table>

* 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.
## LITE LAYER 3 PACKAGE

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>M4250 series</td>
<td>Out-of-band IT Web GUI (main)</td>
<td>AV web-based GUI Designed for AV installers AV-related controls Audio over IP profiles AVB profile* Video over IP profiles Mixed Audio and Video profiles</td>
<td>Ingress/egress 1 Kbps shaping Time-based Single Rate Policing</td>
<td>Auto-VoIP Policy-based routing (PBR) NETGEAR iGMP™ Plus for automated IGMP between switches IGMPv3 MLDv2 Snooping, Proxy ASM &amp; SSIM IGMPv1,v2 Querier (compatible v3) Control Packet Flooding</td>
<td>STP, MRP, RSTP PVST PVRSTP BPDU/STRG Root Guard EEE 802.3az (EEE is disabled by default)</td>
<td>Static, Dynamic, Voice, MAC GVRP/GMRP</td>
<td>Auto-Trunk and Auto-LAG between M4250 Switches Static LAG, or Dynamic LACP (LACP automatically reverts to and from Static LAG) Seven (7) L2/L3/L4 hashing algorithms</td>
<td>Successive Tiering (DOT1X; MAB, Captive Portal) DHCP Snooping Dynamic ARP Inspection IP Source Guard Port, Subnet, VLAN routing Multicast static routes DHCPv4 Server DHCP Relay Stateful DHCPv6 Server</td>
<td>IPv4: RIP IPv4/IPv6: PM-DM PM-SM SSM</td>
<td>All models</td>
<td></td>
</tr>
</tbody>
</table>

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

## TABLE SIZE

<table>
<thead>
<tr>
<th>Model Name</th>
<th>MAC A/R/NDP</th>
<th>Routing/Switching Capacity</th>
<th>Throughput 64-byte</th>
<th>Application Route Scaling</th>
<th>Packet Buffer</th>
<th>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>

**Attributes:**
- **MAC A/R/NDP:** Number of MAC addresses available.
- **Routing/Switching Capacity:** Line rate for routing and switching.
- **Throughput 64-byte:** Throughput for 64-byte packets.
- **Application Route Scaling:** Maximum number of routing entries scaling.
- **Packet Buffer Latency:** Latency for packet buffering.
- **CPU:** Type and speed of the CPU.
- **IP Multicast Routing Entries:** Maximum number of IP multicast entries.
- **Jumbo Frames:** Maximum number of jumbo frames.
- **Multicast IGMP Group membership:** Maximum number of multicast groups.
- **VLANs:** Maximum number of VLANs supported.
- **DHCP:** DHCP server lease information.
- **sFlow:** Maximum number of sFlow pollers and receivers.
- **Model Number:** Identification number for the model.
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**

**M4250-10G2F-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

- 8-port 10/100/1000BASE-T (RJ45) PoE+ with 125W PoE budget  
- 2-port 10/100/1000BASE-T (RJ45)  
- 2-port 1000BASE-X (SFP)  
- 24 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: 2.85Kg (6.28lb)
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)
Components

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)

- 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 10BASE-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)
M4250-26G4F-PoE+  
AV Line Managed Switch

Ordering information
- Americas: GS4230P-100NAS
- Europe: GS4230P-100EUS
- Asia Pacific: GS4230P-100AJS
- China: GS4230P-100PRS
- Warranty: Lifetime ProSAFE Hardware Warranty
- AVB License: AVB4230P-10000S (sold separately)

Components

- 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)
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)
 Components

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)

- 40-port 10/100/1000BASE-T (RJ45) PoE+ with 480W PoE budget
- 8-port 1000BASE-X (SFP)
- 96 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 fanless, quiet, or cool operation
- Dimensions (WxDxH): 440 x 43.2 x 400 mm
- Weight: 5.85Kg (12.90lb)
Components

<table>
<thead>
<tr>
<th>M4250-40G8XF-PoE+</th>
<th>40-port 10/100/1000BASE-T (RJ45) PoE+ with 960W PoE budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV Line Managed Switch</td>
<td>8-port 1000/10GBASE-X (SFP+), 240 Gbps non-blocking fabric across 48 ports</td>
</tr>
<tr>
<td>Ordering information</td>
<td>Out-of-band 1G Ethernet management port</td>
</tr>
<tr>
<td>• Americas: GSM4248PX-100NAS</td>
<td>USB-C and RJ45 RS232 console ports and USB-A storage port</td>
</tr>
<tr>
<td>• Europe: GSM4248PX-100EUS</td>
<td>Front black display panel and all ports in the back</td>
</tr>
<tr>
<td>• Asia Pacific: GSM4248PX-100AJS</td>
<td>Possible reversed mounting with ports in the front</td>
</tr>
<tr>
<td>• China: GSM4248PX-100PRS</td>
<td>Rack-mounting standard brackets</td>
</tr>
<tr>
<td>• Warranty: Lifetime ProSAFE Hardware Warranty</td>
<td>Longer brackets for recessed mounting (2 inches / 5 cm)</td>
</tr>
<tr>
<td>• AVB License: AVB4248PX-10000S (sold separately)</td>
<td>Threaded hole in front (1xM10) for clamps</td>
</tr>
<tr>
<td></td>
<td>Threaded holes on the bottom (4xM5) for 50x100mm VESA plates</td>
</tr>
<tr>
<td></td>
<td>Selectable fan modes for quiet or cool operation</td>
</tr>
<tr>
<td></td>
<td>Dimensions (WxDxH): 440 x 43.2 x 400 mm</td>
</tr>
<tr>
<td></td>
<td>Weight: 6.31Kg (13.91lb)</td>
</tr>
</tbody>
</table>
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)

- 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 PSU are used, PoE budget is 1,650W
- When three PSU 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**

<table>
<thead>
<tr>
<th>Ordering Information</th>
<th>Multimode Fiber (MMF)</th>
<th>Single mode Fiber (SMF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Worldwide: see table below</td>
<td>• OM1 or OM2 62.5/125μm</td>
<td>9/125μm</td>
</tr>
<tr>
<td>• Warranty: 5 years</td>
<td>• OM3 or OM4 50/125μm</td>
<td></td>
</tr>
<tr>
<td><strong>10 Gigabit SFP+</strong></td>
<td>AXM763 10GBase-LRM long reach multimode 802.3aq - LC duplex connector up to 100m (328 ft) AXM763-10000S (1 unit)</td>
<td>AXM762 10GBase-LR long reach single mode LC duplex connector up to 10km (6.2 miles) AXM762-10000S (1 unit) AXM762P10-10000S (pack of 10 units)</td>
</tr>
<tr>
<td>• Fits into M4250 SFP+ interfaces</td>
<td>AXM763 10GBase-LRM long reach multimode 802.3aq - LC duplex connector up to 165m (541 ft) AXM763-10000S (1 unit)</td>
<td>AXM764 10GBase-LR LITE single mode LC duplex connector up to 2km (1.2 mile) AXM764-10000S (1 unit)</td>
</tr>
<tr>
<td><strong>Gigabit SFP</strong></td>
<td>AGM731F 1000Base-SX short range multimode LC duplex connector up to 275m (902 ft) AGM731F (1 unit)</td>
<td>AGM732F 1000Base-LX long range single mode LC duplex connector up to 10km (6.2 miles) AGM732F (1 unit)</td>
</tr>
<tr>
<td>• Fits into M4250 SFP+ and SFP interfaces</td>
<td>AGM731F 1000Base-SX short range multimode LC duplex connector OM3: up to 550m (1,804 ft) OM4: up to 1,000m (3,280 ft) AGM731F (1 unit)</td>
<td></td>
</tr>
<tr>
<td>• M4250-16XF (XSM4216F) supports 1G modules on ports 1-12 only</td>
<td></td>
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</tr>
<tr>
<td><strong>GBIC SFP and SFP+ Optics for M4250 series</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Ordering Information

**AGM734**

1000BASE-T RJ45 SFP (Gigabit)

- Worldwide: AGM734-10000S
- Warranty: 5 years

- Fits into M4250 SFP+ and SFP interfaces
- 1 port Gigabit RJ45
- Supports only 1000Mbps full-duplex mode
- Up to 100m (328 ft) with Cat5 RJ45 or better
- Conveniently adds 1G copper connectivity to M4250 fiber interfaces

**AXM765**

10GBASE-T RJ45 SFP+ (10 Gigabit)

- Worldwide: AXM765-20000S
- Warranty: 5 years

- Fits into M4250 SFP+ interfaces
- 1 port 10GBASE-T RJ45
- Copper connectivity up to 80m (262 ft) distance
- CAT6a or better wiring required for 10GBASE-T up to 80 meters
- Conveniently adds 10G copper connectivity to M4250 fiber interfaces
## Direct Attach Cables for M4250 series

<table>
<thead>
<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>AXC761 10GSFP+ Cu (passive) SFP+ connectors</td>
</tr>
<tr>
<td>10 Gigabit DAC</td>
<td>AXC761-10000S (1 unit)</td>
</tr>
<tr>
<td></td>
<td>7 meters (23.0 ft)</td>
</tr>
<tr>
<td></td>
<td>AXC767 10GSFP+ Cu (active) SFP+ connectors</td>
</tr>
<tr>
<td></td>
<td>AXC767-10000S (1 unit)</td>
</tr>
<tr>
<td></td>
<td>20 meters (65.6 ft)</td>
</tr>
<tr>
<td></td>
<td>AXC7620 10GSFP+ (duplex fiber optic) SFP+ connectors</td>
</tr>
<tr>
<td></td>
<td>AXC7620-10000S (1 unit)</td>
</tr>
</tbody>
</table>

** Fits into M4250 SFP+ interfaces