M4300 Intelligent Edge Series

M4300 series

The M4300 Stackable L3 Managed Switch Series comes with 40G, 10G and 1G models in a variety of form factors including PoE+ full provisioning. SDN-ready with OpenFlow 1.3, M4300 Switch Series delivers IPv4/IPv6 rich services for mid-enterprise edge and SMB core with mixed stacking between 40-, 10- and 1-Gigabit models. Layer 3 feature set includes static and policy-based routing, RIP, VRRP, OSPF, and PIM dynamic routing. M4300 is ideal for server aggregation, wireless access, unified communications and Video-over-IP.
Building 1
- For midsize server installations, two half-width M4300 10GbE models can be paired in a single rack space for redundant top-of-rack
- Compared with single top-of-rack switch installation, such two-unit horizontal stacking is cost-effective yet highly efficient for HA
- Management unit hitless failover and nonstop forwarding ensure no single point of failure for servers and storage

Building 2
- Common for intermediate distribution frames (IDF) in K-12 and other large campuses, stacking topologies greatly simplify deployments at the edge
- While reducing the number of logical units to manage, stacking also brings network resiliency with distributed uplinks in aggregation to the core
- Management unit hitless failover and Non-Stop Forwarding (NSF) ensures continuous uptime for clients across the stack

Building 3
- For typical collapsed core installations, with a variety of 1G and 10G access ports in branch offices, server rooms or campus high performance labs
- M4300 10G models can stack with M4300 1G models, enabling innovative “spine and leaf” topologies
- Spine and leaf architectures deliver highest performance with every leaf switch (1G) connecting to every spine switch (10G) for a fully non-blocking deployment
- With management unit hitless failover and nonstop forwarding, leaf switches keep forwarding L2 and L3 traffic in and out, while backup spine unit guarantees connectivity to the core
To take the complexity out of your AV-over-IP deployment, NETGEAR created M4300 switches that are preconfigured for easy, true AV and multicast Zero Touch network configuration. Namely, IGMP Snooping, IGMP Fast Leave, IGMP Querier are already enabled for the default VLAN 1 that all your devices will automatically use. Connect your encoder and decoder devices, and power on the switch – it just works!

Enabling Zero-Touch install of SDVoE Video-over-IP

- M4300-96X streamlines AV-over-IP SDVoE solutions, replacing 48x48 switches and any other in/out distribution
  - Non-blocking fabric for 96x10G or 24x40G or a combination
  - 12 empty slots in 2RU for 8x10G or 2x40G port expansion cards
  - Use the M4300-96X online configurator to design your modular switch
  - www.netgear.com/96x-config
- Plug and play and ready to grow as per your requirements
- Takes the complexity out of your AV-over-IP deployment
- Zero Touch AV-over-IP with pre-configured L2 Multicast (SDVoE-ready)
  - IGMP Snooping, IGMP Fast Leave, IGMP Querier are already enabled
- Easy-to-use Web browser-based management GUI

The SDVoE Alliance is an eco-system of companies in and around the AV-over-IP space, working together to create a platform for the next generation of audiovisual applications. NETGEAR SDVoE Partners provide the SDVoE audio-video products and NETGEAR provides the backbone network that makes it all possible.

SDVoE is a trademark of the SDVoE Alliance
www.sdvoe.org
NETGEAR M4300 series key features:
- Cost effective 1G access layer in campus LAN networks, and high performance 10G / 40G distribution layer for midsize organizations networks
- Zero Touch AV-over-IP with pre-configured L2 Multicast (SDVoE-ready)
- Advanced Layer 2, Layer 3 and Layer 4 feature set – no license required – including Policy Based Routing, RIP, VRRP, OSPF and PIM
- Innovative mixed “Spine and Leaf”, 1G, 10G and 40G stacking with nonstop forwarding (NSF) and hitless failover redundancy
- Low acoustics, half-width 16-port and 24-port 10G models can be paired in a single rack space for redundant Top of Rack
- Modular 12-slot 2RU model scaling up to 96-port 10G by multiple of 8 ports or 24-port 40G by multiple of 2 ports
- Up to 768 (10 Gigabit) ports, 192 (40 Gigabit) ports or 384 (1 Gigabit) ports, or a combination in a single logical switch
- PoE+ (30 watts per port) with hot swap, redundant power supplies and full provisioning
- SDN-Ready OpenFlow 1.3 support for maximum investment protection

NETGEAR M4300 series software features:
- 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 Proxy ARP, OSPF, Policy-based routing and automatic 6-to-4 tunneling
- Enhanced IPv4/IPv6 multicast forwarding with IGMPv3/MLDv2 ASM and SSM Proxy and Control Packet Flooding protection
- High performance IPv4/IPv6 multicast routing with PIM timer accuracy and unhandled PIM (S,G,rpt) state machine events transitioning
- Advanced IPv4/IPv6 security implementation including malicious code detection, DHCP Snooping, IP Source Guard protection and DoS attacks mitigation
- Innovative multi-vendor Auto-iSCSI capabilities for easier virtualization optimization

NETGEAR M4300 series resiliency and availability features:
- Dual redundant, modular power supplies equipping full width models contribute to business continuity management
- Vertical or horizontal flexible stacking with management unit hitless failover and nonstop forwarding (NSF) across operational stack members
- Spine and leaf architecture with every leaf switch (1G access switches) connecting to every spine switch (distributed 10G “core” switches)
- Stacking and distributed link aggregation allow for multi-resiliency with zero downtime and load balancing capabilities
- Link Dependency new feature enables or disables ports based on the link state of different ports
- Per VLAN Spanning Tree and Per VLAN Rapid Spanning Tree (PVSTP/PVRSTP) offer interoperability with PVST+ infrastructures

NETGEAR M4300 series management features:
- DHCP/BootP innovative auto-installation including firmware and configuration file upload automation
- Industry standard SNMP, RMON, MIB, LLDP, AAA, sFlow and RSPAN remote mirroring implementation
- Service port for out-of-band Ethernet management (OOB)
- Standard RS232 straight-through serial RJ45 and Mini-USB ports for local management console
- Standard USB port for local storage, logs, configuration or image files
- Dual firmware image for updates with minimum service interruption
- Industry standard command line interface (CLI) for IT admins who prefer an easy to use graphical interface
- Fully functional Web console (GUI) for IT admins who prefer an easy to use graphical interface
- Single-pane-of-glass NMS300 management platform with mass-configuration support

NETGEAR M4300 series warranty and support:
- NETGEAR ProSAFE Lifetime Hardware Warranty*
- Included Lifetime Technical Support
- Included Lifetime Next Business Day Hardware Replacement

M4300 Series Features

The M4300 Stackable L3 Managed Switch Series comes with 40G, 10G and 1G models in a variety of form factors including PoE+ full provisioning. SDN-ready with OpenFlow 1.3, M4300 Switch Series delivers IPv4/IPv6 rich services for mid-enterprise edge and SMB core with mixed stacking between 40-, 10- and 1-Gigabit models. Layer 3 feature set includes static and policy-based routing, RIP, VRRP, OSPF, and PIM dynamic routing. M4300 is ideal for server aggregation, wireless access, unified communications and Video-over-IP.
# Hardware at a Glance

<table>
<thead>
<tr>
<th>10G models</th>
<th>Model name</th>
<th>Form-Factor</th>
<th>Switching Fabric</th>
<th>10GBASE-T RJ45 ports</th>
<th>10GBASE-X SFP+ ports</th>
<th>40GBASE-X QSFP+ ports</th>
<th>PSU</th>
<th>Fans</th>
<th>Out-of-band Console</th>
<th>Model number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4300-8X8F</td>
<td>Half-width</td>
<td>1 unit 1U</td>
<td>320 Gbps</td>
<td>8 ports (independent)</td>
<td>8 ports (independent)</td>
<td>-</td>
<td>Modular 1 bay</td>
<td>1 PSU included APS250W</td>
<td>Fixed Front-to-back 36.9dB</td>
<td>Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Front) Console: Mini-USB (Front) Storage: USB (Front)</td>
</tr>
<tr>
<td>M4300-12X12F</td>
<td>Half-width</td>
<td>1 unit 1U</td>
<td>480 Gbps</td>
<td>12 ports (independent)</td>
<td>12 ports (independent)</td>
<td>-</td>
<td>Modular 1 bay</td>
<td>1 PSU included APS250W</td>
<td>Fixed Front-to-back 36.9dB</td>
<td>Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)</td>
</tr>
<tr>
<td>M4300-24X</td>
<td>Half-width</td>
<td>1 unit 1U</td>
<td>480 Gbps</td>
<td>24 ports (independent)</td>
<td>4 ports (shared, back)</td>
<td>1G, 10G</td>
<td>Modular 1 bay</td>
<td>1 PSU included APS250W</td>
<td>Fixed Front-to-back 37dB</td>
<td>Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)</td>
</tr>
<tr>
<td>M4300-24X24F</td>
<td>Full width</td>
<td>1 unit 1U</td>
<td>960 Gbps</td>
<td>24 ports (independent)</td>
<td>24 ports (independent)</td>
<td>-</td>
<td>Modular 2 bays</td>
<td>1 PSU included APS250W</td>
<td>Fixed Front-to-back 36.8dB</td>
<td>Ethernet: Out-of-band 1G port (Front) Console: RJ45 RS232 (Front) Console: Mini-USB (Front) Storage: USB (Front)</td>
</tr>
<tr>
<td>M4300-48X</td>
<td>Full width</td>
<td>1 unit 1U</td>
<td>960 Gbps</td>
<td>48 ports (independent)</td>
<td>4 ports (shared)</td>
<td>1G, 10G</td>
<td>Modular 2 bays</td>
<td>1 PSU included APS250W</td>
<td>Fixed Front-to-back 40.3dB</td>
<td>Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Back) Console: Mini-USB (Front) Storage: USB (Front)</td>
</tr>
</tbody>
</table>

## Rear View

![Rear View](image)

## Front View

![Front View](image)
### Hardware at a Glance

<table>
<thead>
<tr>
<th>Model name</th>
<th>Form-Factor</th>
<th>Switching Fabric</th>
<th>10GBASE-T RJ45 ports</th>
<th>10GBASE-X SFP+ ports</th>
<th>40GBASE-X QSFP+ ports</th>
<th>PSU</th>
<th>Fans</th>
<th>Out-of-band Console</th>
<th>Model number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4300-96X</td>
<td>Modular 1-unit 2U rack mount</td>
<td>up to 96 ports 10G, 2.5G, 5G, 10G</td>
<td>up to 96 ports 1G, 10G</td>
<td>Up to 24 ports 40G</td>
<td>Mod 2 bays for APS600W or APS1200W</td>
<td>Fixed Front-to-back 35 dB (no PoE) 66.8 dB (max PoE)</td>
<td>Ethernet: Out-of-band 1G port (Back) Console: RJ45 RS232 (Black) Console: Mini-USB (Back) Storage: USB (Back)</td>
<td>Empty switch, no PSU (PSU must be purchased separately)</td>
<td>XSM4396K0</td>
</tr>
</tbody>
</table>

- **12 slots for port expansion cards:**
  - APM408C (8 ports)
  - APM408P (8 ports PoE+)*

  * Only first 6 slots are delivering PoE power to APM408P cards for 48 PoE+ ports per switch. APS1200W PSU is preferred for PoE applications.

**M4300-96X online configurator:** [www.netgear.com/96x-config](http://www.netgear.com/96x-config)

---

**SDVoE-Ready M4300-96X**

Up to 96-port 10G, PoE options


---

**SDVoE is a trademark of the SDVoE Alliance**
[www.sdvoe.org](http://www.sdvoe.org)
## Hardware at a Glance

### PoE models:
- AP550W and AP51000W cannot be mixed and matched. A switch can only have two AP550W, or two AP51000W. PA versions can be upgraded to PB, but their AP550W must be replaced by AP51000W (and reversely).

### 1G models

<table>
<thead>
<tr>
<th>Model number</th>
<th>Form-Factor</th>
<th>Switching Fabric</th>
<th>PSU</th>
<th>Fans</th>
<th>Out-of-band Console</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4300-28G</td>
<td>Full width 1-unit 1U rack mount</td>
<td>128 Gps</td>
<td>24 ports (No 10M/half on ports 17-24)</td>
<td>Modular 2 bays</td>
<td>Fixed Front-to-back 30.3dB</td>
</tr>
<tr>
<td>M4300-52G</td>
<td>Full width 1-unit 1U rack mount</td>
<td>176 Gps</td>
<td>48 ports (No 10M/half 17-24 and 41-48)</td>
<td>Modular 2 bays</td>
<td>Fixed Front-to-back 31.5dB</td>
</tr>
<tr>
<td>M4300-28G-PoE+</td>
<td>Full width 1-unit 1U rack mount</td>
<td>128 Gps</td>
<td>24 ports PoE+ (No 10M/half on ports 17-24)</td>
<td>Modular 2 bays</td>
<td>Fixed Front-to-back 39.8dB</td>
</tr>
<tr>
<td>M4300-52G-PoE+</td>
<td>Full width 1-unit 1U rack mount</td>
<td>176 Gps</td>
<td>48 ports PoE+ (No 10M/half 17-24 and 41-48)</td>
<td>Modular 2 bays</td>
<td>Fixed Front-to-back 39.8dB</td>
</tr>
</tbody>
</table>

### 110V/220V AC input

- 480W PoE Budget with 1 PSU
- 720W PoE Budget with 2 PSUs in EPS mode

- 630W PoE Budget with 1 PSU
- 720W PoE Budget with 2 PSUs in EPS mode

- 480W PoE Budget with 1 PSU
- 720W PoE Budget with 2 PSUs in EPS mode

- 591W PoE Budget with 1 PSU
- 860W PoE Budget with 1 PSU

- 1,010W PoE Budget with 2 PSUs in EPS mode
- 1,440W PoE Budget with 2 PSUs in EPS mode

### 110V AC input

- 630W PoE Budget with 1 PSU
- 720W PoE Budget with 2 PSUs in EPS mode

### 220V AC input

- 591W PoE Budget with 1 PSU
- 860W PoE Budget with 1 PSU

- 1,010W PoE Budget with 2 PSUs in EPS mode

### Additional information:
- GSM4328S
- GSM4352S
- GSM4328PA
- GSM4328PB
- GSM4352PA
- GSM4352PB

---

PoE models: AP5550W and AP51000W cannot be mixed and matched. A switch can only have two AP5550W, or two AP51000W. PA versions can be upgraded to PB, but their AP5550W must be replaced by AP51000W (and reversely).
### Software at a Glance

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M4300 series</td>
<td>Out-of-band, Web GUI, HTTPs, CLI, Telnet, SSH, SNMP, MIIBs RSPAN, Radius Users, TACACS+</td>
<td>Stacking NSF with Hitless Failover Link Dependency (Enable or Disable one or more ports based on the link state of one or more different ports) Syslog and Packet Captures can be sent to USB storage</td>
<td>IPv4/IPv6 ACL and QoS, DiffServ</td>
<td>IPv4/IPv6 Multicast filtering</td>
<td>IPv4 / IPv6 Policing and Convergence</td>
<td>Auto-VoIP Auto-6CS</td>
<td>IPv4 Flow</td>
<td>IPv6 Flow</td>
<td>IPv4 IPv6 Static</td>
<td>IPv4 IPv6 Dynamic</td>
<td>IPv4 IPv6 Static</td>
<td>All models</td>
</tr>
</tbody>
</table>

* CLI only

### Performance at a Glance

<table>
<thead>
<tr>
<th>Model name</th>
<th>MAC ARP/NDP</th>
<th>Routing / Switching Capacity</th>
<th>Throughput</th>
<th>Application Route Scaling</th>
<th>Packet Buffer</th>
<th>Latency</th>
<th>IP Multicast Forwarding Entries</th>
<th>CPU</th>
<th>Multicast IGMP Group membership</th>
<th>VLANs</th>
<th>DHCP</th>
<th>sFlow</th>
<th>Model number</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4300-96X</td>
<td>256K MAC 8K ARP/NDP</td>
<td>1.920 Tbps Line-rate</td>
<td>2,857 Mpps</td>
<td>Static: 64v4/64v6 RIP: 512 OSPF: 12,000</td>
<td>96Mb</td>
<td>64-byte frames &lt;2.56µs 10G RJ45 &lt;0.89µs 10G SFP</td>
<td>2,048 IPv4 1,024 IPv6</td>
<td>CPU 1.4 Ghz 2GB RAM 256MB Flash</td>
<td>2K IPv4 2K IPv6</td>
<td>4K VLANs</td>
<td>DHCP Server: 2K leases IPv4: 256 pools IPv6: 16 pools</td>
<td>416 samplers 416 packets 8 receivers</td>
<td>XSM4396K0 XSM4396K1</td>
</tr>
<tr>
<td>M4300 other models</td>
<td>16K MAC 888 ARP/NDP</td>
<td>Up to 480 Gbps All models Line-rate</td>
<td>Up to 357 Mpps</td>
<td>Static: 64v4/64v6 RIP: 512 OSPF: 512</td>
<td>M4300-12X12F 32Mb Others: 16Mb</td>
<td>M4300-8X8F</td>
<td>&lt;2.43µs 10G RJ45 &lt;0.89µs 10G SFP+ All others</td>
<td>96 IPv4 32 IPv6</td>
<td>CPU 800 Mhz 1GB RAM 256MB Flash</td>
<td>All other models</td>
<td>All other models</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* For mixed stacking between more capable devices and less capable devices, SDM mixed stacking template is used based on “least common denominator” set of capacities and capabilities
Components

M4300-8X8F
Stackable Managed Switch

Ordering information
- Americas, Europe: XSM4316S-100NES
- Asia Pacific: XSM4316S-100AJS
- Warranty: Lifetime ProSafe Hardware Warranty

- 8-port 10GBASE-T (RJ45) all independent
- 8-port 10GBASE-X (SFP+) all independent
- 320Gbps non-blocking fabric across 16 ports
- Out-of-band 1G Ethernet management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Half-width form factor with one- and two-unit rack mount kit
- Two half-width switches can be installed in a single rack space for redundant top-of-rack
- Ships with one modular APS250W PSU in its power supply slot
- Low acoustics (36.9dB @25°C / 77°F)

To install a single half-width switch in a rack, a 19-inch rack-mount kit is supplied with the switch:

To install two half-width switches in a rack, inside and outside middle mounts and rack-mount brackets are supplied with the switches:
Components

**M4300-12X12F Stackable Managed Switch**

Ordering information
- Americas, Europe: XSM4324S-100NES
- Asia Pacific: XSM4324S-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty

- 12-port 10GBASE-T (RJ45) all independent
- 12-port 10GBASE-X (SFP+) all independent
- 480Gbps non-blocking fabric across 24 ports
- Out-of-band 1G Ethernet management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Half-width form factor with one- and two-unit rack mount kit
- Two half-width switches can be installed in a single rack space for redundant top-of-rack
- Ships with one modular APS250W PSU in its power supply slot
- Low acoustics (36.9dB @25°C / 77°F)

**M4300-24X Stackable Managed Switch**

Ordering information
- Americas, Europe: XSM4324CS-100NES
- Asia Pacific: XSM4324CS-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty

- 24-port 10GBASE-T (RJ45)
- 4-port 10GBASE-X (SFP+) (shared, back)
- 480Gbps non-blocking fabric across 24 ports
- Out-of-band 1G Ethernet management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Half-width form factor with one- and two-unit rack mount kit
- Two half-width switches can be installed in a single rack space for redundant top-of-rack
- Ships with one modular APS250W PSU in its power supply slot
- Low acoustics (37dB @25°C / 77°F)
Components

**M4300-24X24F**
Stackable Managed Switch

Ordering information
- Americas, Europe: XSM4348S-100NES
- Asia Pacific: XSM4348S-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty

- 24-port 10GBASE-T (RJ45) all independent
- 24-port 10GBASE-X (SFP+) all independent
- 960Gbps non-blocking fabric across 48 ports
- Out-of-band 1G Ethernet Management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Full width form factor with one-unit rack mount kit
- Ships with one modular APS250W PSU in first power supply slot
- Ship with a blank cover in the second power supply slot
- Low acoustics (35.8dB @25°C / 77°F)

**M4300-48X**
Stackable Managed Switch

Ordering information
- Americas, Europe: XSM4348CS-100NES
- Asia Pacific: XSM4348CS-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty

- 48-port 10GBASE-T (RJ45)
- 4-port 10GBASE-X (SFP+) (shared)
- 960Gbps non-blocking fabric across 48 ports
- Out-of-band 1G Ethernet Management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Full width form factor with one-unit rack mount kit
- Ships with one modular APS250W PSU in first power supply slot
- Ship with a blank cover in the second power supply slot
- Low acoustics (40.3dB @25°C / 77°F)
**M4300-96X**
Stackable and Modular Managed Switch

**Ordering information**
- Worldwide (Empty Switch, No PSU): XSM4396K0-10000S
- Americas, Europe (Starter Kit 48xSFP+): XSM4396K1-100NES
- Asia Pacific (Starter Kit 48xSFP+): XSM4396K1-100AJS
- Worldwide (10G Copper card): APM408C-10000S
- Worldwide (10G Copper PoE+ card): APM408P-10000S
- Worldwide (10G Fiber card): APM408F-10000S
- Worldwide (40G Fiber card): APM402XL-10000S
- Warranty: Lifetime ProSAFE Hardware Warranty

**Components**

- Empty version (XSM4396K0)
- 48xSFP+ and 1x600W PSU Starter Kit (XSM4396K1)
- 8x10GBASE-T Port Card - 100M/1G/2.5G/5G/10G (APM408C)
- 8xSFP+ Port Card - 1G/10G (APM408F)
- 8x10GBASE-T PoE+ Port Card - 100M/1G/2.5G/5G/10G (APM408P)
- 2xQSFP+ Port Card - 40G (APM402XL)

- 1.92Tbps non-blocking fabric for 96-port 10G or 24-port 40G or a combination
  - 12 slots (front) available in 2RU for 8x10G or 2x40G port expansion cards
  - XSM4396K0 is the SKU for the M4300-96X empty switch (no PSU)
  - XSM4396K1 is the starter kit including 48xSFP+ and 1x600W PSU
- 4 port cards and hundreds of combinations
  - APM408C features 8-port 100M/1G/2.5G/5G/10GBASE-T (copper RJ45)
  - APM408B features 8-port 100M/1G/2.5G/5G/10GBASE-T with PoE+ (copper RJ45)
  - APM408F features 8-port 1G/10GBASE-X (fiber SFP+)
  - APM402XL features 2-port 40GBASE-X (QSFP+)
- PoE over 10G is supported up to 48 x 10G PoE+ 30W per system (first 6 slots)
- Out-of-band 1G Ethernet Management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Full width 2RU form factor with 2-post and 4-post rack mount kit
- Ships with blank covers in empty slots (front I/O; rear PSU)
- Low acoustics (35.8dB @25°C / 77°F) when no PoE
- 66.8dB @25°C / 77°F with Max PoE (1,440W)

Use the M4300-96X online configurator to design your modular switch:
www.netgear.com/96x-config
Components

**M4300-28G Stackable Managed Switch**

Ordering information
- Americas, Europe: GSM4328S-100NES
- Asia Pacific: GSM4328S-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty

- 24-port 1000BASE-T (RJ45)
- 2-port 10GBASE-T (RJ45) all independent
- 2-port 10GBASE-X (SFP+) all independent
- 128Gbps non-blocking fabric across 28 ports
- Out-of-band 1G Ethernet Management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Full width form factor with one-unit rack mount kit
- Ships with one modular APS150W PSU in first power supply slot
- Ship with a blank cover in the second power supply slot
- Low acoustics (30.3dB @25°C / 77°F)

**M4300-52G Stackable Managed Switch**

Ordering information
- Americas, Europe: GSM4352S-100NES
- Asia Pacific: GSM4352S-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty

- 48-port 1000BASE-T (RJ45)
- 2-port 10GBASE-T (RJ45) all independent
- 2-port 10GBASE-X (SFP+) all independent
- 176Gbps non-blocking fabric across 52 ports
- Out-of-band 1G Ethernet Management port
- Mini-USB and RJ45 RS232 console ports and USB storage port
- Full L3 feature set and non-stop forwarding (NSF) stacking
- Full width form factor with one-unit rack mount kit
- Ships with one modular APS150W PSU in first power supply slot
- Ship with a blank cover in the second power supply slot
- Low acoustics (31.5dB @25°C / 77°F)
Components

M4300-28G-PoE+
Stackable Managed Switch

Ordering information
- Americas, Europe (550W PSU): GSM4328PA-100NES
- Americas, Europe (1,000W PSU): GSM4328PB-100NES
- Asia Pacific (550W PSU): GSM4328PA-100AJS
- Asia Pacific (1,000W PSU): GSM4328PB-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty

M4300-52G-PoE+
Stackable Managed Switch

Ordering information
- Americas, Europe (550W PSU): GSM4352PA-100NES
- Americas, Europe (1,000W PSU): GSM4352PB-100NES
- Asia Pacific (550W PSU): GSM4352PA-100AJS
- Asia Pacific (1,000W PSU): GSM4352PB-100AJS
- Warranty: Lifetime ProSAFE Hardware Warranty
Components

**RPS4000v2**
RPS unit for up to 4 concurrent switches

Ordering information
- Americas, Europe: RPS4000-200NES
- Asia Pacific: RPS4000-200AJS
- Warranty: 5 years

RPS mode: provide N+1 redundancy to M4300-52G-PoE+ when its two internal PSUs are used in EPS (shared) mode
- One APS1000W per M4300-52G-PoE+ connected to the RPS4000 unit
- Up to four (4) M4300-52G-PoE+ switches per RPS4000 unit
### APS1200W Power Supply Unit

**Ordering information**
- Americas, Europe: APS1200W-100NES
- Asia Pacific: APS1200W-100AJS
- Warranty: 5 years

* Modular PSU for M4300-96X (PoE applications)
* C15 connector
* Capacity:
  - 110V-240V AC power input
  - Up to 1,200W output power at 110V/220V AC

### APS1000W Power Supply Unit

**Ordering information**
- Americas, Europe: APS1000W-100NES
- Asia Pacific: APS1000W-100AJS
- Warranty: 5 years

* Power module for RPS4000 unit
* Additional PSU for M4300–28G-PoE+ (GSM4328PB) and M4300–52G–PoE+ (GSM4352PB)
* C15 connector
* Capacity:
  - 110V-240V AC power input
  - Up to 640W output power at 110V AC
  - Up to 910W output power at 220V AC

### APS600W Power Supply Unit

**Ordering information**
- Americas, Europe: APS600W-100NES
- Asia Pacific: APS600W-100AJS
- Warranty: 5 years

* Modular PSU for M4300-96X (non-PoE applications)
* C14 connector
* Capacity:
  - 110V-240V AC power input
  - Up to 600W output power at 110/220V AC
### Components

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Additional PSU</th>
<th>Capacity</th>
</tr>
</thead>
</table>
| APS550W | Power Supply Unit | for M4300-28G-PoE+ (GSM4328PA) and 4300-52G-PoE+ (GSM4352PA) | – 110V–240V AC power input  
– Up to 575W output power at 110/220V AC |
| APS250W | Power Supply Unit | for M4300-8X8F, M4300-12X12F and M4300-24X24F | – 110V–240V AC power input  
– Up to 250W output power at 110/220V AC |
| APS150W | Power Supply Unit | for M4300-28G and M4300-52G | – 110V–240V AC power input  
– Up to 150W output power at 110/220V AC |

#### Ordering information
- Americas, Europe: APS550W-100NES
- Asia Pacific: APS550W-100AJS
- Warranty: 5 years
## GBIC SFP and SFP+ Optics for M4300 series

### Ordering information
- Worldwide: see table below
- Warranty: 5 years

<table>
<thead>
<tr>
<th></th>
<th>Multimode Fiber (MMF)</th>
<th>Single mode Fiber (SMF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OM1 or OM2 62.5/125µm</td>
<td>9/125µm</td>
</tr>
<tr>
<td><strong>10 Gigabit SFP+</strong></td>
<td><strong>AXM763</strong> 10GBase-LRM long reach multimode 802 3aq – LC duplex connector up to 220m (722 ft) AXM763-10000S (1 unit)</td>
<td><strong>AXM762</strong> 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></td>
<td><strong>AXM761</strong> 10GBase-SR short reach multimode LC duplex connector OM3: up to 300m (984 ft) OM4: up to 550m (1,804 ft) AXM761-10000S (1 unit) AXM761P10-10000S (pack of 10 units)</td>
<td><strong>AXM764</strong> 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><strong>AGM731F</strong> 1000Base-SX short range multimode LC duplex connector up to 275m (902 ft) AGM731F (1 unit)</td>
<td><strong>AGM732F</strong> 1000Base-LX long range single mode LC duplex connector up to 10km (6.2 miles) AGM732F (1 unit)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **AGM734** 1000BASE-T RJ45 SFP (Gigabit) | Ordering information  
- Worldwide: AGM734-10000S  
- Warranty: 5 years  | * Fits into M4300 models 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 M4300 fiber interfaces |
| **AXM765** 10GBASE-T RJ45 SFP+ (10 Gigabit) | Ordering information  
- Worldwide: AXM765-10000S  
- Warranty: 5 years  | * Fits into M4300 models SFP+ interfaces  
* 1 port 10GBASE-T RJ45  
* Copper connectivity up to 30 m (98 feet) distance  
* CAT6a or better wiring required for 10GBASE-T up to 30 meters  
* Conveniently adds 10G copper connectivity to M4300 fiber interfaces |
## Accessories

### Direct Attach Cables for M4300 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></td>
</tr>
</tbody>
</table>

#### 10 Gigabit DAC

<table>
<thead>
<tr>
<th>10 Gigabit DAC</th>
<th>AXC761</th>
<th>AXC763</th>
<th>AXC765</th>
</tr>
</thead>
<tbody>
<tr>
<td>10GSFP+ Cu (passive)</td>
<td>10GSFP+ Cu (passive)</td>
<td>10GSFP+ Cu (active)</td>
<td></td>
</tr>
<tr>
<td>SFP+ connectors</td>
<td>SFP+ connectors</td>
<td>SFP+ connectors</td>
<td></td>
</tr>
<tr>
<td>AXC761-10000S (1 unit)</td>
<td>AXC763-10000S (1 unit)</td>
<td>AXC765-10000S (1 unit)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7 meters (23.0 ft)</th>
<th>10 meters (32.8 ft)</th>
<th>15 meters (49.2 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXC767</td>
<td>AXC7610</td>
<td>AXC7615</td>
</tr>
<tr>
<td>10GSFP+ Cu (active)</td>
<td>10GSFP+ Cu (active)</td>
<td>10GSFP+ (duplex fiber optic)</td>
</tr>
<tr>
<td>SFP+ connectors</td>
<td>SFP+ connectors</td>
<td>SFP+ connectors</td>
</tr>
<tr>
<td>AXC767-10000S (1 unit)</td>
<td>AXC7610-10000S (1 unit)</td>
<td>AXC7615-10000S (1 unit)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>20 meters (65.6 ft)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AXC7620</td>
<td></td>
</tr>
<tr>
<td>10GSFP+ (duplex fiber optic)</td>
<td></td>
</tr>
<tr>
<td>SFP+ connectors</td>
<td></td>
</tr>
<tr>
<td>AXC7620-10000S (1 unit)</td>
<td></td>
</tr>
</tbody>
</table>

- Fits into M4300 models 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.

NETGEAR, the NETGEAR Logo, and ProSAFE are trademarks of NETGEAR, Inc. in the United States and/or other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Information is subject to change without notice. © 2018 NETGEAR, Inc. All rights reserved.