

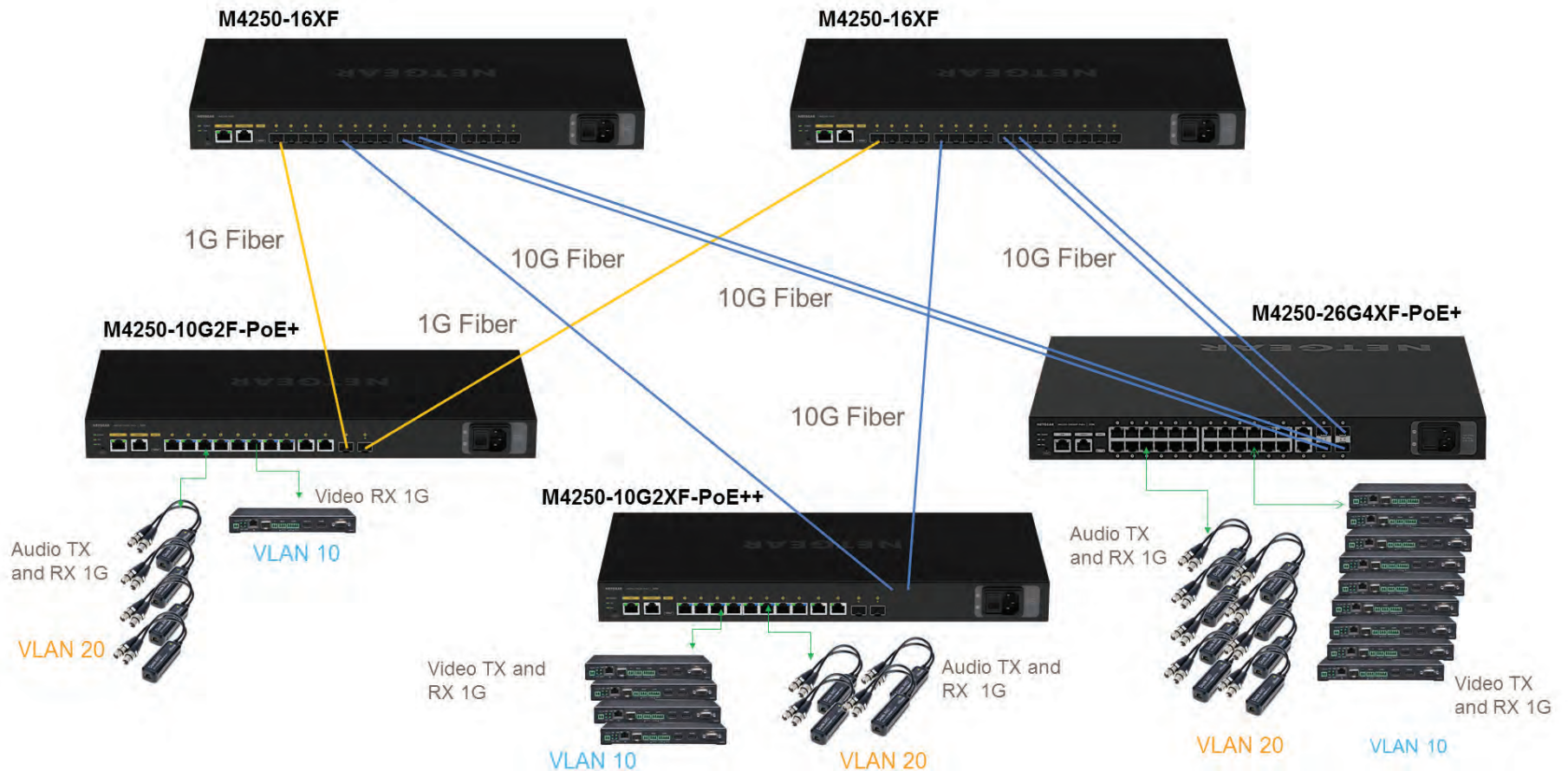
M4250 AV Line Managed Switches

NETGEAR AV Line M4250 시리즈는 AV Professionals의 입력을 받아 설계되었습니다. 그 결과 전용 서비스 및 지원과 함께 맞춤형 하드웨어 및 소프트웨어를 통해 IP를 통한 1Gb 오디오 및 비디오 기능을 지원하기 위해 처음부터 구축된 스위치 제품군이 탄생했습니다.

NETGEAR®
/// AV Line



Target Application



M4250의 새로운 AV 제품군은 즉시 사용 가능한 기능과 업계 최초로 AV Pro만을 염두에 두고 설계된 사용자 인터페이스를 갖추고 있습니다.

NETGEAR는 처음부터 설계된 새로운 사용자 인터페이스를 포함함으로써 AV 전문가를 위한 환경을 개선했습니다. ProAV 고객은 결코 필요하지 않은 설정과 IT별 기능을 갖춘 IT 중심 인터페이스에 만족해야 할 필요가 없습니다. 새로운 M4250 AV 인터페이스는 일반적인 AV 플랫폼에 대해 사용자가 선택할 수 있는 프로필을 전면에 제공하여 특정 오디오 또는 비디오 애플리케이션에 대해 설정이 올바른지 확인합니다.

각 M4250이 특정 포트에서 AV 프로필로 구성된 경우 AV Line은 여러 M4250 스위치를 서로 연결하여 자동으로 동적으로 구성할 수 있습니다. NETGEAR IGMP Plus™와 결합된 Auto-LAG 및 Auto-Trunk로 알려진 이 자동 구성을 통해 복잡한 AV over IP 네트워크를 이전보다 쉽고 빠르게 설정할 수 있습니다.

M4250 시리즈 특징

NETGEAR AV Line M4250 시리즈는 AV 전문가의 의견을 바탕으로 설계되었습니다. 그 결과, 전용 서비스 및 지원과 함께 맞춤형 하드웨어 및 소프트웨어로 IP를 통해 1Gb 오디오 및 비디오를 지원할 수 있도록 처음부터 구축된 스위치 제품군이 탄생했습니다.

NETGEAR M4250 시리즈 주요 기능 :

- 15.4W, 30W, 60W, 75W 및 90W AVoIP 엔드포인트를 위한 다양한 PoE+ 및 Ultra90 PoE++ 옵션이 포함된 8~48개의 포트
- 업링크 옵션에는 오디오 설치 또는 독립 실행형 비디오 설치를 위한 1G와 대규모 비디오 배포를 위한 10G 업링크 포함
- 스타 토폴로지의 플러그 앤 플레이 통합을 위한 12포트 멀티기가비트 이더넷 및 16포트 1G/10G 파이버 모델도 포함
- 랙마운트 방식의 기존 AV 장비와 완벽하게 통합되도록 설계된 랙마운트 모델
- M4250 스위치에는 전면 및 모든 케이블과 후면 추가 상태가 포함된 매끈한 검은색 디스플레이 패널이 제공
- 랙 전면에 포트가 필요할 때 역방향 장착이 가능합니다.
- 두 번째 랙마운트 이어를 통해 스위치를 2인치 오목하게 장착하여 케이블 연결 가능
- 소프트웨어 제어식 팬 조정을 통해 외부 온도 및 PoE 부하가 완전히 팬리스 작동에 적합할 때 팬을 끌 수 있습니다.
- 하단(50x100mm VESA의 경우 4xM5), 전면(클램프의 경우 1xM10)의 나사 구멍으로 랙 외부에서도 범용 장착 옵션을 사용할 수 있습니다.

- 신제품! 회의실, 모바일 스튜디오, 벽면, 테이블 아래 또는 스크린 뒤에서 AV 랙 외부에서 사용할 수 있는 M4250 데스크톱 버전

NETGEAR M4250 시리즈 AV 소프트웨어 기능 :

- IP를 통한 오디오 및 비디오용으로 사전 구성된 M4250 스위치는 제로 구성으로 인코더와 디코더를 연결할 수 있도록 합니다.
- 추가 구성이 필요한 경우 AV 웹 기반 GUI를 사용할 수 있습니다.
- 이 인터페이스는 포트 기반 프로필과 함께 액세스 용이성을 높인 특정 AV 관련 컨트롤이 있는 AV 설치 관리자를 위해 특별히 설계되었습니다.
- 오디오의 경우, Dante, Q-SYS 및 AES67용 프로필과 AVB 프로필이 내장되어 있습니다. (AVB 라이선스는 별도 판매).
- 비디오용으로 M4250은 NVX, SVSI, QSYS, NDI, Kramer KDS, Aurora Multimedia, ZeeVee, Atlona, Dante 및 SDVoE에 대한 프로필을 제공합니다.
- 오디오/비디오/컨트롤 혼합 프로파일뿐만 아니라 다른 AV 코덱 및 제조업체도 지원합니다.
- 스타 구축을 더욱 단순화하기 위해 NETGEAR IGMP Plus™는 모든 M4250 스위치와 M4300/M4500을 통해 멀티캐스트 자동화를 제공합니다.
- Auto-Trunk 및 Auto-LAG를 사용하면 M4250 스위치를 연결하기만 하면 됩니다!

NETGEAR M4250 시리즈 소프트웨어 기능 :

- 모든 M4250 스위치는 동일한 하이엔드 NETGEAR Layer 2 / Layer 3 스위칭 엔진을 공유하여 일관된 환경을 제공합니다.
- M4250 시리즈의 모든 스위치에는 기업, 캠퍼스 네트워크, IoT 및 IPTV를 위한 또 다른 주요 IT 웹 기반 GUI가 있습니다.
- 추가 기능에는 정적, RIP 및 PIM-SM, DM 및 SSM 멀티캐스트 라우팅, DHCP 서버 및 PTPv2 투명 클럭(1단계 E2E)이 포함됩니다.
- AVB는 라이선스가 필요한 유일한 기능입니다. 다른 모든 고급 기능은 라이선스 없이 사용할 수 있습니다.
- L2(MAC), L3(IP) 및 L4(UDP/TCP 전송 포트) 보안 및 우선 순위 지정에 위한 고급 분류기 기반 시간 기반 하드웨어 구현입니다.
- 포트 채널/LAG(802.3ad - 802.1)를 선택할 수 있습니다. AX) L2/L3/L4 해싱은 모든 유형의 이더넷 채널링과 함께 내결함성 및 로드 공유를 제공합니다.
- 음성 VLAN(SIP, H323 및 SCCP 프로토콜 감지 및 LLDP-MED IP 전화 자동 QoS 및 VLAN구성)을 지원합니다.
- 효율적인 BYOD를 위해 연속적인 DOT1X, MAB 및 Captive Portal 방법을 통해 효율적인 인증 계층화를 실현합니다.
- 정책 기반 라우팅 및 6 대 4 터널링을 포함한 포괄적인 IPv4/IPv6 정적 및 동적 라우팅입니다.

M4250 Series Features

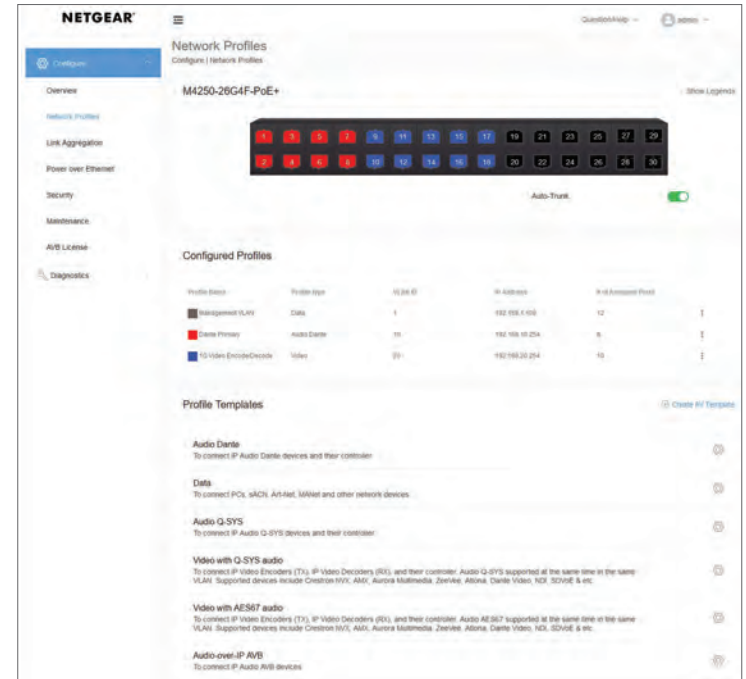
- 악성 코드 탐지, DHCP 스누핑, IP 소스 가드 보호 및 DoS 공격 완화를 포함한 고급 IPv4/ IPv6 보안 구현입니다.

NETGEAR M4250 시리즈 관리 기능 :

- 펌웨어 및 구성 파일 업로드 자동화를 포함한 DHCP/BootP의 혁신적인 자동 설치
- 업계 표준 SNMP, RMON, MIB, LLDP, AAA, sFlow, RSPAN 및 PTPv2
- OOB(Out-of-Band Ethernet Management) 서비스 포트
- 로컬 관리 콘솔용 표준 RS232 스트레이트 시리얼 RJ45 및 USB Type-C 포트
- 로컬 스토리지, 로그, 구성 또는 이미지 파일을 위한 표준 USB-A 포트
- 서비스 중단을 최소화하는 업데이트를 위한 이중 펌웨어 이미지
- 대규모 구성을 지원하는 단일 창 NMS300 관리 플랫폼
- 다른 벤더 명령에 사용되는 IT 관리자를 위한 업계 표준 CLI(명령줄 인터페이스)
- 사용이 간편한 그래픽 인터페이스를 선호하는 IT 관리자를 위한 완벽한 기능성 웹 콘솔(기본 GUI)
- 전용 AV 웹 기반 GUI 인터페이스는 AV 설치를 위해 [switch IP address:8080]에서 사용 할 수 있습니다.

NETGEAR M4250 series warranty and support:

- NETGEAR ProSAFE 한정 평생 하드웨어 보증 **
- 평생 기술 지원 포함
- 평생 익명업일 하드웨어 교체 서비스
- 무료 네트워크 설계 서비스와 설치 지원을 제공하는 NETGEAR 엔지니어링 서비스팀은 M4250 AV over IP 스위치를 통해 1G 구축을 최대한 원활하게 수행할 수 있도록 지원합니다. 시작하려면 ProAVDesign@netgear.com으로 이메일을 보내 주십시오!



GSM4210PX
GSM4210PD



Hardware-at-a-Glance

			REAR (REVERSIBLE)*					LEDs	MANAGEMENT	
Model Name	Form-Factor	Switching Fabric	10/100/1000 BASE-T RJ45 ports	100/1000/2.5G BASE-T RJ45 ports	1000BASE-X SFP ports	1000/10G BASE-X SFP+ ports	PSU	Status Information	Out-of-band Console	Model Number
M4250-9G1F-PoE+	Desktop 210 x 40 x 140mm	20 Gbps	8 ports PoE+ (110W) 1 additional port	-	1 port SFP 1G	-	1 x External Power Adapter (130W)	In Front: Power LED PoE Max LED Fan LED (GSM4210PX only)	Ethernet: 1G Out-of-band (Rear) Console: USB-C (Front) 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	1 x External Power Adapter (254W)			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	-	1 x Fixed (C14) On/off switch	Available both in front and in the rear: Power LED PoE Max LED (PoE models) Fan LED Port LEDs	Ethernet: 1G Out-of-band (Rear) Console: RJ45 RS232 (Rear) Console: USB-C (Rear) Storage: USB-A (Front) LED Ext: USB-C (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	1 x Fixed (C14) On/off switch			GSM4212PX
M4250-10G2XF-PoE++	1U rackmount 440 x 43.2 x 257mm	60 Gbps	8 ports PoE+++** (720W) 2 additional ports	-	-	2 ports SFP+ 1G, 10G	1 x Fixed (C14) On/off switch			GSM4212UX
M4250-26G4F-PoE+	1U rackmount 440x43.2x257mm	60 Gbps	24 ports PoE+ (300W) 2 additional ports	-	4 ports SFP 1G	-	1 x Fixed (C14) On/Off switch			GSM4230P
M4250-26G4F-PoE++	1U rackmount 440x43.2x400mm	60 Gbps	24 ports PoE++ (1,440W)** (1 PSU/720W; 2 PSU/1,440W) 2 additional ports	-	4 ports SFP 1G	-	2 x Fixed (C14) On/Off switch			GSM4230UP
M4250-26G4XF-PoE+	1U rackmount 440x43.2x400mm	132 Gbps	24 ports PoE+ (480W) 2 additional ports	-	-	4 ports SFP+ 1G; 10G	1 x Fixed (C14) On/Off switch			GSM4230PX
M4250-40G8F-PoE+	1U rackmount 440x43.2x400mm	96 Gbps	40 ports PoE+ (480W)	-	8 ports SFP 1G	-	1 x Fixed (C14) On/Off switch			GSM4248P
M4250-40G8XF-PoE+	1U rackmount 440x43.2x400mm	240 Gbps	40 ports PoE+ (960W)	-	-	8 ports SFP+ 1G; 10G	1 x Fixed (C14) On/Off switch			GSM4248PX
M4250-40G8XF-PoE++	2U rackmount 440x86.4x350mm	240 Gbps	40 ports PoE++ (2,880W)** (1 PSU/720W; 2 PSU/1,650W; 3 PSU/2,880W)	-	-	8 ports SFP+ 1G; 10G	3 x Fixed (C14) On/Off switch			GSM4248UX
M4250-12M2XF	1U rackmount 440x43.2x100mm	100 Gbps	-	12 ports 100M, 1G, 2.5G	-	2 ports SFP+ 1G, 10G	1 x Fixed (C14) On/Off switch			MSM4214X
M4250-16XF	1U rackmount 440x43.2x200mm	320 Gbps	-	-	-	16 ports SFP+ 10G only (First 12 ports support 1G)	1 x Fixed (C14) On/Off switch			XSM4216F

* 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).

GSM4210PX
GSM4210PD



NETGEAR
AV Line

Acoustic-at-a-Glance

	FAN OFF MODE Setting / maximum loading*					QUIET MODE Setting at 25°C ambient**					COOL MODE Setting at 25°C ambient**			
Model Name	Fanless State	Ambient	Sensor	PoE Power Load	Conditions	PoE Power Load	Fan Duty	Sensor	Case Temp (Top)	Acoustic	Fan Duty	Case Temp (Top)	Acoustic	Model Number
M4250-9G1F-PoE+	The switch is fanless	25°C	50°C	110W	All ports can be used	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GSM4210PD
M4250-8G2XF-PoE+	0dBA / 37.4°C Case Temp	25°C	S1&2 <= 60°C S3 <= 58°C	180W	RJ45 ports only (no SFP+)	220W	10	<= 60°C	33.6°C	19.3dBA	100	28.8°C	35.3dBA	GSM4210PX
M4250-10G2F-PoE+	0dBA / 41.8°C Case Temp	25°C	<= 42°C	80W	All ports can be used	125W	25	<= 36°C	35.9°C	27.38dBA	100	27.2°C	55dBA	GSM4212P
M4250-10G2XF-PoE+	0dBA / 39.6°C Case Temp	25°C	<= 44°C	90W	All ports can be used	240W	25	<= 37°C	40.6°C	27.4dBA	100	30.9°C	56dBA	GSM4212PX
M4250-10G2XF-PoE++	0dBA / 44.6°C Case Temp	25°C	<= 67°C	45W	All ports can be used	0-250W	25	<= 49°C	42.9°C	34.57dBA	100	41.8°C	66.23dBA	GSM4212UX
						250-380W	30	<= 49°C	43.3°C	40dBA				
						380W-500W	35	<= 49°C	44.9°C	44.22dBA				
						500W-720W	40	<= 49°C	52.1°C	47.19dBA				
M4250-26G4F-PoE+	0dBA / 40.5°C Case Temp	25°C	S1 <= 43°C S2 <= 47°C	45W	8 ports PoE (no SFP)	0-200W	25	S1 <= 43°C S2 <= 47°C	43.5°C	28dBA	100	36.7°C	57dBA	GSM4230P
						200W-300W	30	S1 <= 44°C S2 <= 48°C	51.3°C	34dBA				
M4250-26G4F-PoE++	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	0-280W	20	S1 <= 37°C S2 <= 39°C	52.9°C	28dBA	100	720W 36.7°C 1,440W 46°C	69dBA	GSM4230UP
						280W-360W	25	S1 <= 38°C S2 <= 40°C	57.4°C	36dBA				
						360W-420W	30	S1 <= 39°C S2 <= 41°C	54.4°C	41dBA				
						420W-480W	35	S1 <= 40°C S2 <= 42°C	53.3°C	47dBA				
						480W-540W	40	S1 <= 41°C S2 <= 43°C	52.3°C	50dBA				
						540W-600W	45	S1 <= 42°C S2 <= 44°C	54.4°C	54dBA				
						600W-660W	50	S1 <= 43°C S2 <= 45°C	53.6°C	57dBA				
						660W-1,440W	55	S1 <= 44°C S2 <= 46°C	55.7°C	60dBA				
M4250-26G4XF-PoE+	0dBA / 43.4°C Case Temp	25°C	S1 <= 41°C S2 <= 46°C	45W	8 ports PoE (no SFP+)	0-350W	20	S1 <= 41°C S2 <= 46°C	39.3°C	25dBA	100	32.3°C	67dBA	GSM4230PX
						350W-480W	30	S1 <= 42°C S2 <= 47°C	36.8°C	42dBA				
M4250-40G8F-PoE+	0dBA / 45.2°C Case Temp	25°C	S1 <= 37°C S2 <= 50°C	30W	8 ports PoE (No SFP)	0-150W	20	S1 <= 37°C S2 <= 50°C	43.1°C	30dBA	100	35.4°C	68dBA	GSM4248P
						150W-200W	25	S1 <= 38°C	42.1°C	36dBA				
						200W-340W	30	S1 <= 39°C S2 <= 51°C	44°C	40dBA				
						340W-480W	35	S1 <= 40°C	47.6°C	47dBA				

Acoustic-at-a-Glance

	FAN OFF MODE Setting / maximum loading*					QUIET MODE Setting at 25°C ambient**					COOL MODE Setting at 25°C ambient**			
Model Name	Fanless State	Ambient	Sensor	PoE Power Load	Conditions	PoE Power Load	Fan Duty	Sensor	Case Temp (Top)	Acoustic	Fan Duty	Case Temp (Top)	Acoustic	Model Number
M4250-40G8XF-PoE+	Not Supported					0-400W	20	S1<= 33°C S2<=46°C	54.2°C	29dBA	100	36.1°C	69dBA	GSM4248PX
						400W-480W	25	S1<= 34°C S2<=47°C	42.8°C	35dBA				
						480W-560W	30	S1<= 35°C S2<=48°C	41.9°C	41dBA				
						560W-640W	35	S1<= 36°C S2<=49°C	42.1°C	48dBA				
						640W-720W	40	S1<= 37°C S2<=50°C	40.9°C	51dBA				
						720W-800W	45	S1<= 38°C S2<=51°C	40.7°C	54dBA				
						800W-880W	50	S1<= 39°C S2<=52°C	40.4°C	57dBA				
						880W-960W	55	S1<= 40°C S2<=53°C	40.5°C	59dBA				
M4250-40G8XF-PoE++	Not Supported					0-160W	20	S1<= 37°C S2<=49°C	41.3°C	30dBA	100	720W 31.4°C 1,650W 33.5°C 2,880W 35.4°C	71dBA	GSM4248UX
						160W-240W	25	S1<= 38°C	38.8°C	36dBA				
						240W-320W	30	S1<= 39°C S2<=50°C	36.4°C	42dBA				
						320W-400W	35	S1<= 40°C	35.3°C	49dBA				
						400W-480W	40	S1<= 41°C S2<=51°C	34.4°C	51dBA				
						480W-560W	45	S1<= 42°C	34.3°C	55dBA				
						560W-640W	50	S1<= 43°C S2<=52°C	35.1°C	57dBA				
						660W-2,880W	55	S1<= 44°C	36.5°C	60dBA				
M4250-12M2XF	0dBA / 56°C Case Temp	25°C	<= 64°C	-	8 ports 2.5G (no SFP+)	-	25	<= 58°C	53.5°C	28.5dBA	100	33.2°C	55dBA	MSM4214X
M4250-16XF	0dBA / 41.3°C Case Temp	25°C	<= 78°C	-	8 ports SFP+	-	25	<= 67°C	41.6°C	27.44dBA	100	30.3°C	57dBA	XSM4216F

* 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 25°C during testing. Full, 100%, Data and PoE loaded. Worst case.

Software-at-a-Glance

	LITE LAYER 3 PACKAGE											
Model Name	Management	AV Dedicated UI	IPv4 / IPv6 ACL and QoS, DiffServ	IPv4 / IPv6 Multicast Filtering	IPv4 / IPv6 Policing and Convergence	Spanning Tree Green Ethernet	VLANs	Trunking Port Channel	IPv4 / IPv6 Authentication Security	IPv4 / IPv6 Static Routing	IPv4 / IPv6 Dynamic Routing	Model Number
M4250 series	Out-of-band	AV web-based GUI			Auto-VoIP							
	IT Web GUI (main)	Designed for AV installers		NETGEAR IGMP™ Plus for automated IGMP between switches	Policy-based routing (PBR)	STP, MTP, RSTP	Static, Dynamic, Voice, MAC	Auto-Trunk and Auto-LAG between M4250 Switches	Successive Tiering (DOT1X; MAB; Captive Portal)	Port, Subnet, VLAN routing	IPv4: RIP	
	HTTPs CLI; Telnet; SSH	AV-related controls	Ingress/egress	IGMPv3 MLDv2 Snooping, Proxy ASM & SSM	LLDP-MED	PV(R)STP	GVRP/GMRP	Static LAG, or Dynamic LACP		Multicast static routes	IPv4: RIP	
	SNMP, MIBs RSPAN	Audio over IP profiles	1 Kbps shaping Time-based	IGMPv1, v2 Querier (compatible v3)	IEEE 1588 PTPv2 1-Step End-to-End	BPDU/STRG Root Guard	Double VLAN mode	(LACP automatically reverts to and from Static LAG)	DHCP Snooping Dynamic ARP Inspection IP Source Guard	DHCPv4 Server	IPv4/IPv6: PIM-SM PIM-DM SSM	
	Radius Users, TACACS+	AVB profile* Video over IP profiles	Single Rate Policing	IGMPv1, v2 Querier (compatible v3)	Transparent Clock	EEE 802.3az (EEE is disabled by default)	Private VLANs	Seven (7) L2/L3/L4 hashing algorithms		DHCP Relay		All models
		Mixed Audio and Video profiles		Control Packet Flooding	AVB*: 802.1AS, 802.1Qav, 802.1Qat MSRP, 802.1ak MMRP, 802.1ak MVRP					Stateful DHCPv6 Server		

* Requires AVB license, sold separately. All other software features are available, license-free.



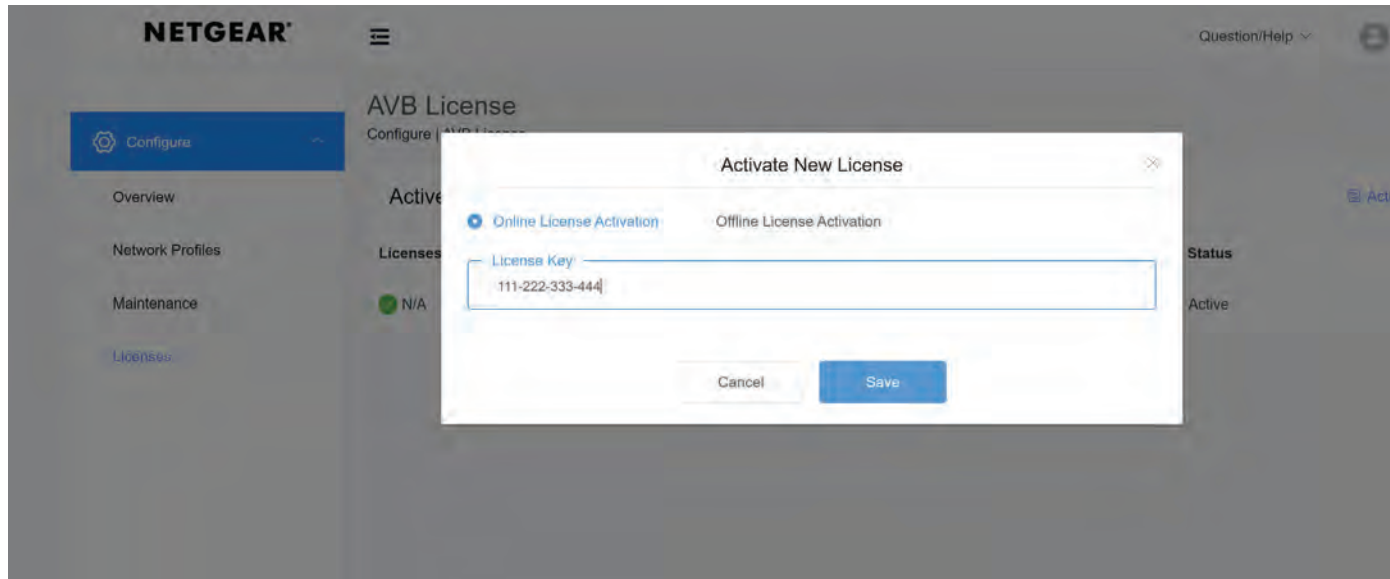
* Requires AVB license, sold separately. All other software features are available, license-free.

Performance-at-a-Glance

	TABLE SIZE													
Model Name	MAC ARP/NDP	Routing/Switching Capacity	Throughput 64-byte	Application Route Scaling	Packet Buffer	Latency	CPU	IP Multicast Routing Entries	Jumbo Frames	Multicast IGMP Group membership	VLANs	DHCP	sFlow	Model Number
M4250-9G1F-PoE+	16K MAC 4K ARP/NDP	20 Gbps Line-Rate	14.88 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.27µs 1G	ARM A9 1.25Ghz 32-Bit 2GB RAM	512 IPv4 128 IPv6	Up to 12K	2K IPv4 2K IPv6	4K VLANs	DHCP Server: 2K leases IPv4: 256 pools IPv6: 16 pools	16 samplers 16 pollers 8 receivers	GSM4210PD
M4250-8G2XF-PoE+	16K MAC 4K ARP/NDP	56 Gbps Line-Rate	41.67 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.14µs 1G <0.84µs 10G								GSM4210PX
M4250-10G2F-PoE+	16K MAC 4K ARP/NDP	24 Gbps Line-Rate	17.86 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.27µs 1G								GSM4212P
M4250-10G2XF-PoE+	16K MAC 4K ARP/NDP	60 Gbps Line-Rate	44.64 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.14µs 1G <0.84µs 10G								GSM4212PX
M4250-10G2XF-PoE++	16K MAC 4K ARP/NDP	60 Gbps Line-Rate	44.64 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<1.84µs 1G <0.81µs 10G								GSM4212UX
M4250-26G4F-PoE+	16K MAC 4K ARP/NDP	60 Gbps Line-Rate	44.64 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.15µs 1G	Quad-Core Cortex-A57 ARMv8 1.8Ghz 64-bit 2GB RAM							GSM4230P
M4250-26G4F-PoE++	16K MAC 4K ARP/NDP	60 Gbps Line-Rate	44.64 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.15µs 1G								GSM4230UP
M4250-26G4XF-PoE+	16K MAC 4K ARP/NDP	132 Gbps Line-Rate	98.21 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.29µs 1G <0.83µs 10G								GSM4230PX
M4250-40G8F-PoE+	16K MAC 4K ARP/NDP	96 Gbps Line-Rate	71.42 Mpps	Static: 894v4/126v6 RIP: 32v4	32Mb	<2.46µs 1G								GSM4248P
M4250-40G8XF-PoE+	16K MAC 4K ARP/NDP	240 Gbps Line-Rate	178.56 Mpps	Static: 894v4/126v6 RIP: 32v4	32Mb	<2.74µs 1G <0.73µs 10G								GSM4248PX
M4250-40G8XF-PoE++	16K MAC 4K ARP/NDP	240 Gbps Line-Rate	178.56 Mpps	Static: 894v4/126v6 RIP: 32v4	32Mb	<2.78µs 1G <0.73µs 10G								GSM4248UX
M4250-12M2XF	16K MAC 4K ARP/NDP	100 Gbps Line-Rate	74.40 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<2.84µs 1G <6.02µs 2.5G <0.81µs 10G	ARM A9 1.25Ghz 32-Bit 2GB RAM							MSM4214X
M4250-16XF	16K MAC 4K ARP/NDP	320 Gbps Line-Rate	238.08 Mpps	Static: 894v4/126v6 RIP: 32v4	16Mb	<1.30µs 1G <0.86µs 10G								XSM4216F

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 racks: 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)



Components

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 racks: 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

- 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)



Components

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)

Components

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)



- 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 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)

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

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)

Components

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

Ordering information • Worldwide: see table below • Warranty: 5 years	Multimode Fiber (MMF)		Single mode Fiber (SMF)
	OM1 or OM2 62.5/125µm	OM3 or OM4 50/125µm	9/125µm
10 Gigabit SFP+  Fits into M4250 SFP+ interfaces	AXM763 10GBase-LRM long reach multimode 802.3aq - LC duplex connector up to 100m (328 ft) AXM763-10000S (1 unit)	AXM763 10GBase-LRM long reach multimode 802.3aq - LC duplex connector up to 165m (541 ft) AXM763-10000S (1 unit) AXM761 10GBase-SR short reach multimode LC duplex connector up to 300m (984 ft) AXM761-10000S (1 unit) AXM761P10-10000S (pack of 10 units)	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) AXM764 10GBase-LR LITE single mode LC duplex connector up to 2km (1.2 mile) AXM764-10000S (1 unit)
Gigabit SFP  - Fits into M4250 SFP+ and SFP interfaces - M4250-16XF (XSM4216F) supports 1G modules on ports 1-12 only	AGM731F 1000Base-SX short range multimode LC duplex connector up to 275m (902 ft) AGM731F (1 unit)	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)	AGM732F 1000Base-LX long range single mode LC duplex connector up to 10km (6.2 miles) AGM732F (1 unit)

AGM734 1000BASE-T RJ45 SFP (Gigabit)	Ordering information • 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)	Ordering information • 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

Accessories

Direct Attach Cables for M4250 series

ORDERING INFORMATION WORLDWIDE: SEE TABLE BELOW WARRANTY: 5 YEARS	SFP+ to SFP+		
	1 meter (3.3 ft)	3 meters (9.8 ft)	5 meters (16.4 ft)
10 Gigabit DAC 	AXC761 10GSFP+ Cu (passive) SFP+ connectors AXC761-10000S (1 unit)	AXC763 10GSFP+ Cu (passive) SFP+ connectors AXC763-10000S (1 unit)	AXC765 10GSFP+ Cu (active) SFP+ connectors AXC765-10000S (1 unit)
	7 meters (23.0 ft)	10 meters (32.8 ft)	15 meters (49.2 ft)
	AXC767 10GSFP+ Cu (active) SFP+ connectors AXC767-10000S (1 unit)	AXC7610 10GSFP+ Cu (active) SFP+ connectors AXC7610-10000S (1 unit)	AXC7615 10GSFP+ (duplex fiber optic) SFP+ connectors AXC7615-10000S (1 unit)
	20 meters (65.6 ft)		
	AXC7620 10GSFP+ (duplex fiber optic) SFP+ connectors AXC7620-10000S (1 unit)		

• Fits into M4250 SFP+ interfaces