

NETGEAR AV Line M4250-40G8F-PoE+ (GSM4248P-100EUS)
 NETGEAR AV Line M4250-40G8F-PoE+ - Switch - L3 - Managed - 40 x 10/100/1000 (PoE+) + 8 x 1000Base-X SFP - side to side airflow - rack-mountable - PoE+ (480 W)

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.



Key Selling Points

- Pre-configured for out-of-the-box use
- Dedicated AV web-based GUI interface
- Profiles for common audio protocols
- Video profiles built-in
- Unique automatic configuration

Product Features

Pre-configured for out-of-the-box use

NETGEAR IGMP Plus enables instant multicast functionality for most AV over IP installations.

Dedicated AV web-based GUI interface

Unique interface designed for the AV professional with color-coded, port-based profiles.

Profiles for common audio protocols

Quickly assign profiles to ports for Dante, AES67, and AVB audio configurations.

Video profiles built-in

Special profiles for NVX, SVSI, Q-SYS and Dante video profiles can be easily assigned to ports as needed.

Unique automatic configuration

Auto-trunk and auto-lag functionality automatically configures other M4250 switches for use in star topology.

Main Specifications

Product Description	NETGEAR AV Line M4250-40G8F-PoE+ - switch - 40 ports - Managed - rack-mountable
Device Type	Switch - 40 ports - L3 - Managed
Enclosure Type	Side to side airflow rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	40 x 10/100/1000 (PoE+) + 8 x 1000Base-X SFP
Power Over Ethernet (PoE)	PoE+
PoE Budget	480 W
Performance	Switching capacity: 96 Gbps Firewall throughput (64-byte packet size): 71.42 Mpps 1 Gbps fibre latency (64-byte packets): 1.074 µs 1 Gbps fibre latency (512-byte packets): 1.109 µs 1 Gbps fibre latency (1024-byte packets): 1.106 µs 1 Gbps fibre latency (1518-byte packets): 1.102 µs 1 Gbps copper latency (64-byte packets): 2.027 µs 1 Gbps copper latency (512-byte packets): 2.343 µs 1 Gbps copper latency (1024-byte packets): 2.462 µs 1 Gbps copper latency (1518-byte packets): 2.358 µs
Capacity	ARP entries: 4000 NDP entries: 4000 Packet buffer size: 32 MB VLANs supported: 4093 IGMP multicast groups: 4000 QoS hardware queues: 8 IPv4 routes (static): 64 IPv6 routes (static): 64 RIP application route scaling (IPv4): 32 IPv4 groups (Multicast): 512 IPv6 groups (Multicast): 128
MAC Address Table Size	16K entries

Jumbo Frame Support	12KB
Routing Protocol	RIP-1, RIP-2, IGMPv2, IGMP, PIM-SM, PIM-DM, IGMPv3, PIM-SSM, static IPv4 routing, static IPv6 routing, policy-based routing (PBR), MLDv2, MLD, PIM-SMv6, PIM-DMv6, MSTP, RSTP, STP
Remote Management Protocol	SNMP 1, SNMP 2, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, HTTP, HTTPS, TFTP, SSH, SSH-2, CLI, SCP, SFTP, ICMP, DHCP, TACACS+, RADIUS
Features	Flow control, auto-sensing per device, BOOTP support, IGMP snooping, port mirroring, DiffServ support, store and forward, MAC address filtering, Broadcast Storm Control, full duplex mode, Multicast Storm Control, Unicast Storm Control, STNP support, Weighted Random Early Detection (WRED), sFlow, DHCP snooping, Quality of Service (QoS), DHCP server, MLD snooping, Dynamic ARP Inspection (DAI), STP Root Guard, Uni-Directional Link Detection (UDLD), LACP support, LLDP support, DHCP relay, Port Security, Remote Switch Port Analyzer (RSPAN), Energy Efficient Ethernet, Multicast VLAN Registration (MVR), dual firmware images, Multiple VLAN Registration Protocol (MVRP), Neighbor Discovery Protocol (NDP), Class of Service (CoS), Strict Priority (SP), Generic Attribute Registration Protocol (GARP), Generic VLAN Registration Protocol (GVRP), IGMP proxy, 802.1x authentication, Precision Time Protocol (PTP), DiffServ Code Point (DSCP) support, cable test, MLD proxy, IP source guard, GARP Multicast Registration Protocol (GMRP), Source-Specific Multicast (SSM), DNS client, Voice VLAN, LLDP-MED, RA guard, STP BPDU Guard, STP loop guard, Denial of Service (DoS) protection, Protocol Independent Multicast (PIM), Audio Video Bridging (AVB), MAC Access Bypass (MAB), Link Aggregation Group (LAG), multiple tag protocol identifiers (TPID), IPTV support, Management Access Control and Administration List (MACAL), Industry Standard Discovery Protocol (ISDP), Rapid PVST+ (RPVST+), Multiple Registration Protocol (MRP), STP BPDU Filtering, STP BPDU Flooding, MGMD Snooping, Any Source Multicast (ASM)
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ac, IEEE 802.1s, IEEE 802.1v, IEEE 802.1ab (LLDP), IEEE 802.3at, IEEE 802.3az, IEEE 802.1AX
Dimensions (WxDxH)	44 cm x 40 cm x 4.32 cm
Weight	5.852 kg
Localisation	Europe
Manufacturer Warranty	ProSAFE lifetime warranty

Extended Specification

General

Device Type	Switch - 40 ports - L3 - Managed
Enclosure Type	Side to side airflow rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	40 x 10/100/1000 (PoE+) + 8 x 1000Base-X SFP
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MAC Address Table Size	16K entries
Jumbo Frame Support	12KB
Routing Protocol	RIP-1,RIP-2,IGMPv2,IGMP,PIM-SM,PIM-DM,IGMPv3,PIM-SSM,static IPv4 routing,static IPv6 routing,policy-based routing (PBR),MLDv2,MLD,PIM-SMv6,PIM-DMv6,MSTP,RSTP,STP
Remote Management Protocol	SNMP 1,SNMP 2,RMON 1,RMON 2,RMON 3,RMON 9,Telnet,SNMP 3,HTTP,HTTPS,TFTP,SSH,SSH-2,CLI,SCP,SFTP,ICMP,DHCP,TACACS+,RADIUS
Encryption Algorithm	AES,TLS 1.0,SSL 3.0,TLS 1.2
Authentication Method	Secure Shell (SSH),RADIUS,TACACS+
Features	Flow control,auto-sensing per device,BOOTP support,IGMP snooping,port mirroring,DiffServ support,store and forward,MAC address filtering,Broadcast Storm Control,full duplex mode,Multicast Storm Control,Unicast Storm Control,SNTP support,Weighted Random Early Detection (WRED),sFlow,DHCP snooping,Quality of Service (QoS),DHCP server,MLD snooping,Dynamic ARP Inspection (DAI),STP Root Guard,Uni-Directional Link Detection (UDLD),LACP support,LLDP support,DHCP relay,Port Security,Remote Switch Port Analyzer (RSPAN),Energy Efficient Ethernet,Multicast VLAN Registration (MVR),dual firmware images,Multiple VLAN Registration Protocol (MVRP),Neighbor Discovery Protocol (NDP),Class of Service (CoS),Strict Priority (SP),Generic Attribute Registration Protocol (GARP),Generic VLAN Registration Protocol (GVRP),IGMP proxy,802.1x authentication,Precision Time Protocol (PTP),DiffServ Code Point (DSCP) support,cable test,MLD proxy,IP source guard,GARP Multicast Registration Protocol (GMRP),Source-Specific Multicast (SSM),DNS client,Voice VLAN,LLDP-MED,RA guard,STP BPDU Guard,STP loop guard,Denial of Service (DoS) protection,Protocol Independent Multicast (PIM),Audio Video Bridging (AVB),MAC Access Bypass (MAB),Link Aggregation Group (LAG),multiple tag protocol identifiers (TPID),IPTV support,Management Access Control and Administration List (MACAL),Industry Standard Discovery Protocol (ISDP),Rapid PVST+ (RPVST+),Multiple Registration Protocol (MRP),STP BPDU Filtering,STP BPDU Flooding,MGMD Snooping,Any Source Multicast (ASM)
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Processor	X ARM:1.8 GHz
RAM	2 GB
Flash Memory	256 MB
Status Indicators	Port status,power,fan,PoE max

Expansion / Connectivity

Interfaces	40 x 10/100/1000 Base-T RJ-45 PoE+ - 30 W 8 x 1000Base-X SFP 1 x management (Gigabit LAN) RJ-45 1 x management (RS-232) RJ-45 1 x USB-C 1 x USB Type A
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Power

Power Device	Internal power supply
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Installed Qty	1
Power Consumption Operational	624.8 Watt
Power Consumption Stand by	46.4 Watt

Miscellaneous

Included Accessories	Rubber feet,rubber caps
Cables Included	1 x console cable 1 x USB-C to USB-A cable
Rack Mounting Kit	Included
MTBF	341,680 hours
Compliant Standards	cUL,EN 60950,UL 1950,CB,CCC,EN 60950-1,GB 4943,RCM,EN 61000-3-3:2013,EN 55024:2010,EN 61000-3-2:2014,FCC CFR47 Part 15 A,CNS 13438 Class A,EN 55032:2012+AC:2013 Class A,CNS 14336-1,EN 62368-1,IEC 62368-1,IEC 950,AS/NZS 60950-1:2015,ICES-003:2016 issue 6 Class A,CISPR 32:2012,VCCI-CISPR 32:2016 Class A,AS/NZS CISPR32:2013 Class A,IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013,EN 60950-1:2006+A1:2010+A11:2009+A2:2013+A12:2011+A2:2013,ANSI C63.4:2014
Localisation	Europe

Dimensions &Weight

Width	44 cm
Depth	40 cm
Height	4.32 cm
Weight	5.852 kg

Manufacturer Warranty

Service &Support	Limited warranty - lifetime Limited warranty - technical support - 90 days
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	45 °C
Humidity Range Operating	90% (non-condensing)
Min Storage Temperature	-20 °C
Max Storage Temperature	70 °C
Humidity Range Storage	95% (non-condensing)

Product data is provided by CNET,we do not warrant the accuracy and completeness of the material contained in this data sheet