

## NETGEAR AV Line M4250-12M2XF (MSM4214X-100EUS)

NETGEAR AV Line M4250-12M2XF - Switch - L3 - Managed - 12 x 10/100/1000/2.5G + 2 x 10 Gigabit SFP+ - side to side airflow - rack-mountable



The NETGEAR M4250 switch series was developed and engineered for audio / video professionals with dedicated service and support. M4250 has been built from the ground up for the growing AV over IP market. AV codecs generally use 1 Gbps or 10 Gbps per stream and the AV Line of M4250 targets the widespread 1 Gbps codecs. M4250 switch comes pre-configured for standard audio and video signals. When requirements are more specific, an AV user interface offers customization with port-based profiles. For audio Dante, Q-SYS and AES67 profiles are available. For video the M4250 offers profiles for NVX, SVSI, Q-SYS, NDI, Dante, as well as audio / video / control mixed profiles.

## Key Selling Points

- Dedicated AV web-based GUI interface for more specific AV installations
- Color-based AV profiles can be applied to the different ports
- Dante, Q-SYS, AES67 and AVB audio profiles
- NVX, SVSI, Q-SYS, NDI and Dante video profiles
- Audio / video / control mixed profiles
- Automatic switch interconnect with NETGEAR IGMP Plus
- Common Layer 2 and Layer 3 switching engine
- Built-in IT web GUI, console, Telnet and SSH
- 12-port 100 / 1000 / 2.5GBase-T (RJ-45)
- 2-port 1000 / 10GBase-X (SFP+)
- 100 Gbps non-blocking fabric across 14 ports
- Out-of-band 1G Ethernet management port
- USB-C and RJ-45 RS232 console ports and USB-A storage port
- Rack-mounting standard brackets

## Main Specifications

Product Description	NETGEAR AV Line M4250-12M2XF - switch - 14 ports - Managed - rack-mountable
Device Type	Switch - 14 ports - L3 - Managed
Enclosure Type	Side to side airflow rack-mountable 1U
Subtype	10 Gigabit Ethernet
Ports	12 x 10/100/1000/2.5G + 2 x 10 Gigabit SFP+
Performance	Switching capacity: 100 Gbps   Firewall throughput (64-byte packet size): 74.4 mpps   Latency (2.5 Gbps): 6.013 µs   Latency (10 Gbps): 0.807 µs
Capacity	VLANs supported: 4093   ARP entries: 4000   Multicast entries (IPv4): 512   Multicast entries (IPv6): 128   Jumbo frame size: up to 12000   IGMP multicast groups: 2000   MSTP instances: 16   PVST instances: 32
MAC Address Table Size	16K entries
Routing Protocol	RIP, IGMPv2, IGMP, PIM-SM, PIM-DM, IGMPv3, PIM-SSM, static IPv4 routing, static IPv6 routing, MLDv2
Remote Management Protocol	RMON 1, RMON 2, SNMP, RMON 9, Telnet, HTTPS, SSH, CLI, TACACS+, RADIUS
Features	VLAN support, DoS attack prevention, sFlow, Spanning Tree Protocol (STP) support, DHCP snooping, Quality of Service (QoS), DHCP server, Dynamic ARP Inspection (DAI), DHCP relay, Link Aggregation Control Protocol (LACP), Remote Switch Port Analyzer (RSPAN), Dynamic VLAN Support (GVRP), Multiple VLAN Registration Protocol (MVRP), 16MB packet buffer, IP source guard, Bridge protocol data unit (BPDU), GARP Multicast Registration Protocol (GMRP), Spanning-tree Root Guard (STRG), policy based routing, Authentication, Authorization and Accounting (AAA), LLDP-MED, Private VLAN, Protocol Independent Multicast (PIM), Rapid Reconfiguration of Spanning Tree (RSTP), Link Aggregation Group (LAG)
Compliant Standards	IEEE 802.3ad (LACP), IEEE 802.1as, IEEE 802.1ab (LLDP), IEEE 802.1ak, IEEE 802.3az, IEEE 802.1AX, IEEE 802.1Qat, IEEE 802.1Qav
Dimensions (WxDxH)	44 cm x 10 cm x 4.32 cm

Weight	1.745 kg
Localisation	Europe
Manufacturer Warranty	ProSAFE lifetime warranty

## Extended Specification

### General

Device Type	Switch - 14 ports - L3 - Managed
Enclosure Type	Side to side airflow rack-mountable 1U
Subtype	10 Gigabit Ethernet
Ports	12 x 10/100/1000/2.5G + 2 x 10 Gigabit SFP+
Performance	Switching capacity:100 Gbps Firewall throughput (64-byte packet size):74.4 mpps Latency (2.5 Gbps):6.013 µs Latency (10 Gbps):0.807 µs
Capacity	VLANs supported:4093 ARP entries:4000 Multicast entries (IPv4):512 Multicast entries (IPv6):128 Jumbo frame size:up to 12000 IGMP multicast groups:2000 MSTP instances:16 PVST instances:32
MAC Address Table Size	16K entries
Routing Protocol	RIP,IGMPv2,IGMP,PIM-SM,PIM-DM,IGMPv3,PIM-SSM,static IPv4 routing,static IPv6 routing,MLDv2
Remote Management Protocol	RMON 1,RMON 2,SNMP,RMON 9,Telnet,HTTPS,SSH,CLI,TACACS+,RADIUS
Encryption Algorithm	SSL 3.0,TLS 1.2
Features	VLAN support,DoS attack prevention,sFlow,Spanning Tree Protocol (STP) support,DHCP snooping,Quality of Service (QoS),DHCP server,Dynamic ARP Inspection (DAI),DHCP relay,Link Aggregation Control Protocol (LACP),Remote Switch Port Analyzer (RSPAN),Dynamic VLAN Support (GVRP),Multiple VLAN Registration Protocol (MVRP),16MB packet buffer,IP source guard,Bridge protocol data unit (BPDU),GARP Multicast Registration Protocol (GMRP),Spanning-tree Root Guard (STRG),policy based routing,Authentication,Authorization and Accounting (AAA),LLDP-MED,Private VLAN,Protocol Independent Multicast (PIM),Rapid Reconfiguration of Spanning Tree (RSTP),Link Aggregation Group (LAG)
Compliant Standards	IEEE 802.3ad (LACP),IEEE 802.1as,IEEE 802.1ab (LLDP),IEEE 802.1ak,IEEE 802.3az,IEEE 802.1AX,IEEE 802.1Qat,IEEE 802.1Qav
Processor	X ARM A9:1.25 GHz
RAM	2 GB
Flash Memory	256 MB
Status Indicators	Link/speed

### Expansion / Connectivity

Interfaces	12 x 10/100/1000/2.5G RJ-45 2 x 10GBase-X SFP+ 1 x management (Gigabit LAN) RJ-45 1 x console RJ-45 1 x USB Type A 1 x console (USB) Type C
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## Power

Power Device	Internal power supply
Installed Qty	1
Power Consumption Operational	37.9 Watt
Power Consumption Stand by	14.1 Watt

## Miscellaneous

Included Accessories	Mounting brackets
Cables Included	Console cable USB-C to USB-A cable
Rack Mounting Kit	Included
Compliant Standards	CCC,EN 61000-3-3:2013,EN 55024:2010,YD/T993-1998,IEC60950/EN60950,FCC CFR47 Part 15 B Class A,CNS 13438 Class A,GB 4943.1-2011,EN 55032:2012+AC:2013 Class A,CNS 14336-1,IEEE 1588,ICES-003:2016 issue 6 Class A,CISPR 32:2012,EN 61000-3-2:2014 Class A,VCCI-CISPR 32:2016 Class A,AN/NZS 60950.1:2015,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,GB/T9254-2008 Class A,ANSI C63.4:2014
Localisation	Europe

## Dimensions & Weight

Width	44 cm
Depth	10 cm
Height	4.32 cm
Weight	1.745 kg

## Manufacturer Warranty

Service & Support	Limited warranty - lifetime
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## Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	50 °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