

NETGEAR MSM4310 Managed L3 2.5G Ethernet (100/1000/2500) Power over Ethernet (PoE) 1U Black

Brand : NETGEAR

Product code: MSM4310-100NES

Product name : MSM4310



- 8 2.5G PoE++ ports with 2 25GBASE-X SFP28 uplinks.
- Comes with one APS254W power adapter providing 119W of base PoE budget.
- Half-width form factor enables one or two switches in a single rack space
- Up to three APS254W power adapters provide up to 551W PoE budget and/or N+1 redundancy
- The PoE budget can reach 551W, when the redundant PoE budget is 119W (1+1) or 322W (2+1).
- Virtual Chassis stacking provides non-stop forwarding (NSF) and hitless failover.
- Layer 3 feature set includes static, policy-based, and dynamic routing.
- NETGEAR IGMP Plus™, NETGEAR AV OS, and Engage Controller speed up AV installations.
- SMPTE ST 2110 Grand Master Clock and Boundary Clock for AES67 and ST2059-2 applications.
- Multi-color LED on each physical port reflecting the profile color in the NETGEAR AV OS™ and Engage Controller.

8x2.5G PoE++ (119W base, up to 551W) and 2x25G SFP28 Managed Switch

Management features		Multicast features	
Switch type *	Managed	Multicast Listener Discovery (MLD) snooping	
Switch layer	L3		
Quality of Service (QoS) support	✓	Protocols	
Web-based management	✓	Management protocols	SNMP V1, V2, V3
ARP inspection	✓	GARP VLAN Registration Protocol (GVRP)	✓
Ports & interfaces		Routing protocols	OSPF, OSPFv2, OSPFv3, RIP, RIP-1, RIP-2
Basic switching RJ-45 Ethernet ports quantity *	8	Design	
Basic switching RJ-45 Ethernet ports type *	2.5G Ethernet (100/1000/2500)	Rack mounting *	✓
2.5G Ethernet (copper) ports quantity	8	Stackable *	✓
10G Ethernet (copper) ports quantity	8	Form factor	1U
SFP28 ports quantity	2	Product colour	Black
Power connector	AC-in jack	LED indicators	✓
Network		Airflow direction	Front-to-back airflow
Networking standards *	IEEE 802.1D, IEEE 802.1Q, IEEE 802.1Qav, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad, IEEE 802.3ak, IEEE 802.3bz, IEEE 802.3u	Performance	
		Built-in processor	✓
		Processor model	ARM Cortex-A57
		Processor frequency	1800 MHz
10G support *	✗	Memory type	DDR4-SDRAM
Full duplex	✓	Internal memory	2048 MB
Flow control support	✓	Flash memory	512 MB
Link aggregation	✓	sFlow	✓
Broadcast storm control	✓	Power	
Spanning tree protocol	✓	Power source *	AC
6to4 tunnel	✓	Power supply included *	✓
IPv4 routes	512	Power consumption (typical)	133.5 W
IPv6 routes	256	Power consumption (max)	351.5 W
VLAN support	✓	Power over Ethernet (PoE)	
Virtual LAN features	MAC address-based VLAN, Private VLAN, Voice VLAN	Power over Ethernet (PoE) *	✓
Number of VLANs	4093	Power over Ethernet 4PPoE (PoE++) ports quantity	48
Data transmission		Power over Ethernet (PoE) power per port	90 W
Switching capacity *	140 Gbit/s	Total Power over Ethernet (PoE) budget	3314 W

Data transmission		Other features	
Throughput	372 Mpps	Power supply	550 W
MAC address table *	16000 entries	Operational conditions	
Store-and-forward	✓	Operating temperature (T-T)	0 - 45 °C
Latency (10 Gbps)	2.27 μs	Storage temperature (T-T)	-20 - 70 °C
Jumbo frames support	✓	Operating relative humidity (H-H)	0 - 90%
Jumbo frames	12000	Storage relative humidity (H-H)	0 - 95%
Packet buffer memory	32 MB	Operating altitude	0 - 3000 m
Security		Non-operating altitude	0 - 3000 m
DHCP features	DHCP Option 150, DHCP Option 66, DHCP Option 67, DHCP relay, DHCP server, DHCP snooping	Weight & dimensions	
Access Control List (ACL)	✓	Width	220 mm
Access Control List (ACL) egress	1023	Depth	300 mm
Access Control List (ACL) ingress	511	Height	43.2 mm
IGMP snooping	✓	Weight	2.9 kg
IGMP proxy	✓	Packaging content	
MAC address filtering	✓	Cables included	AC, USB Type-C
Static port security	✓	Quick start guide	✓
Loop protection	✓	Rack mount kit	✓
BPDU filtering/protection	✓	Packaging data	
Authentication	Guest VLAN, MAC-based authentication	Included power plug types	EU, UK, NA
Root protection	✓	Sustainability	
Password protection	✓	Sustainability compliance	✓
DoS attack prevention	✓	Certificates	
Authentication type	RADIUS, TACACS+	Compliance certificates	BSMI, CCC, CE, Federal Communications Commission (FCC), Low Voltage Directive (LVD)
Queue scheduling algorithms	Strict Priority Queue (SPQ), Weighted random early detection (WRED)		
Multicast features			
Multicast support	✓		



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