

## NETGEAR M4300-16X Managed L3 10G Ethernet (100/1000/10000) Power over Ethernet (PoE) 1U Black



**Brand :** NETGEAR

**Product code:** XSM4316PA-100NES

**Product name :** M4300-16X

- 16-port 100M/1G/2.5G/5G/10GBASE-T with PoE+ (copper RJ45)
  - 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 APS299W PSU in its power supply slot
  - Low acoustics (36dB with APS299W, 35dB with APS600W, @25°C / 77°F)
- M4300-16X, 320 Gbps, 238 Mpps, 16x 100/1000/2.5/5/10GBASE-T RJ-45, PoE+, 299W PSU, 212x44x345 mm

Management features		Protocols	
Switch type *	Managed	GARP VLAN Registration Protocol (GVRP)	✓
Switch layer	L3	Routing protocols	OSPF, OSPFv3, RIP, RIP-1, RIP-2
Quality of Service (QoS) support	✓		
Ports & interfaces		Design	
Basic switching RJ-45 Ethernet ports quantity *	16	Rack mounting *	✓
Basic switching RJ-45 Ethernet ports type *	10G Ethernet (100/1000/10000)	Stackable *	✓
Console port	RJ-45/Mini-USB	Form factor	1U
USB 2.0 ports quantity	1	Product colour	Black
		Airflow direction	Front-to-back airflow
Network		Performance	
Networking standards *	IEEE 802.1D, IEEE 802.1Q, IEEE 802.1ab, IEEE 802.1p, IEEE 802.1s, IEEE 802.1v, IEEE 802.1w, IEEE 802.3, IEEE 802.3ad, IEEE 802.3af, IEEE 802.3at, IEEE 802.3az, IEEE 802.3bz, IEEE 802.3u	Physical stacking (units)	8
10G support *	✓	Built-in processor	✓
Port mirroring	✓	Processor frequency	800 MHz
IP routing	✓	Internal memory	1024 MB
Link aggregation	✓	Noise level	36 dB
Auto-sensing	✓	Mean time between failures (MTBF)	690301 h
VLAN support	✓	Power	
Virtual LAN features	Private VLAN, Tagged VLAN, Voice VLAN	Power supply included *	✓
Number of VLANs	4093	Number of power supply units	1
Data transmission		Power consumption (max)	49 W
Switching capacity *	320 Gbit/s	Power over Ethernet (PoE)	
Throughput	238 Mpps	Power over Ethernet (PoE) *	✓
MAC address table *	16000 entries	Power over Ethernet plus (PoE+) ports quantity	16
Store-and-forward	✓	Power over Ethernet (PoE) power per port	30 W
Number of queues	8	Total Power over Ethernet (PoE) budget	199 W
Number of static routes	64	Operational conditions	
Jumbo frames support	✓	Heat dissipation	186 BTU/h
Jumbo frames	9000	Weight & dimensions	
Security		Width	212 mm
DHCP features	DHCP client, DHCP snooping, DHCPv6 client, DHCPv6 relay, DHCPv6 server, DHCPv6 snooping	Depth	345 mm
Access Control List (ACL)	✓	Height	44 mm
		Weight	3.22 kg
		Packaging content	
		Rack mount kit	✓

Security		Logistics data	
IGMP snooping	✓	Harmonized System (HS) code	85176990
BPDU filtering/protection	✓		
Authentication	Guest VLAN, MAC-based authentication		
Multicast features			
Multicast support	✓		
Number of multicast groups filtered	4000		



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