NETGEAR

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





Marke : NETGEAR

Artikel-Code: MSM4310-100NES

Produktname : MSM4310

NETGEAR MSM4310. Switch-Typ: Managed, Switch-Ebene: L3. Basic Switching RJ-45 Ethernet Ports-Typ: 2.5G Ethernet (100/1000/2500), Anzahl der basisschaltenden RJ-45 Ethernet Ports: 8. Vollduplex. MAC-Adressentabelle: 16000 Eintragungen, Routing-/Switching-Kapazität: 140 Gbit/s. Netzstandard: IEEE 802.1D, IEEE 802.1Q, IEEE 802.1Qav, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE.... Netzstecker: AC-Eingangsbuchse. Power over Ethernet (PoE). Rack-Einbau, Formfaktor: 1U

Management-Funktionen	
Switch-Typ *	Managed
Switch-Ebene	L3
Quality of Service (QoS) Support	✔
Web-basiertes Management	✔
ARP-Inspektion	✔

Anschlüsse und Schnittstellen	
Anzahl der basisschaltenden RJ-45 Ethernet Ports *	8
Basic Switching RJ-45 Ethernet Ports-Typ *	2.5G Ethernet (100/1000/2500)
Anzahl 2.5G Ethernet (Kupfer)-Ports	8
Anzahl 10G Ethernet (Kupfer)-Ports	8
Anzahl SFP28-Ports	2
Netzstecker	AC-Eingangsbuchse

Netzwerk	
Netzstandard *	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
10G-Unterstützung *	✘
Vollduplex	✔
Unterstützung Datenflusssteuerung	✔
Link Aggregation	✔
Broadcast-Sturmkontrolle	✔
Spannbaum-Protokoll	✔
6to4 Tunnel	✔
IPv4-Routen	512
IPv6-Routen	256
VLAN-Unterstützung	✔
Virtuelle LAN-Funktionen	MAC address-based VLAN, Private VLAN, Voice VLAN
Anzahl der VLANs	4093

Datenübertragung	
Routing-/Switching-Kapazität *	140 Gbit/s
Durchgang	372 Mpps
MAC-Adressentabelle *	16000 Eintragungen
Store-and-Forward	✔

Multicast-Funktionen	
Multicast Unterstützung	✔
Multicast Listener Discovery (MLD) Snooping	✔

Protokolle	
Management-Protokolle	SNMP V1, V2, V3
GARP VLAN Registration Protocol (GVRP)	✔
Router Protokoll	OSPF, OSPFv2, OSPFv3, RIP, RIP-1, RIP-2

Design	
Rack-Einbau *	✔
Stapelbar *	✔
Formfaktor	1U
Produktfarbe	Schwarz
LED-Anzeigen	✔
Luftstromrichtung	Luftstrom von vorne nach hinten

Leistungen	
Eingebauter Prozessor	✔
Prozessor	ARM Cortex-A57
Prozessortaktfrequenz	1800 MHz
Speichertyp	DDR4-SDRAM
Speicherkapazität	2048 MB
Flash-Speicher	512 MB
sFlow	✔

Energie	
Energiequelle *	AC
Netzteil enthalten *	✔
Stromverbrauch (Standardbetrieb)	133,5 W
Stromverbrauch (max.)	351,5 W

Power over Ethernet (PoE)	
Power over Ethernet (PoE) *	✔
Anzahl der Power over Ethernet 4PPoE- (PoE++) Anschlüsse	48
Power over Ethernet (PoE) Leistung pro Anschluss	90 W
Gesamtleistung Power over Ethernet (PoE)	3314 W

Datenübertragung	
Wartezeit (10 Gbps)	2,27 µs
Jumbo Frames Unterstützung	✔
Jumbo-Frames	12000
Datenpaket-Pufferspeicher	32 MB

Sicherheit	
DHCP-Funktionen	DHCP Option 150, DHCP Option 66, DHCP Option 67, DHCP relay, DHCP server, DHCP snooping
Zugriffkontrollliste	✔
Zugriffskontrollliste (ACL) Ausgang	1023
Zugriffskontrollliste (ACL) Eingang	511
IGMP-Snooping	✔
IGMP-Proxy	✔
MAC Adressen Filtern	✔
Statische Anschlusssicherheit	✔
Loop Protection	✔
BPDU-Filterung/Schutz	✔
Authentifizierung	Gast VLAN, MAC-basierte Authentifizierung
Root-Schutz	✔
Passwortschutz	✔
DoS Attacken Prävention	✔
Autentifizierungstyp	RADIUS, TACACS+
Warteschleifenplanungs-Algorithmen	Strict Priority Queue (SPQ), Weighted random early detection (WRED)

Sonstige Funktionen	
Stromversorgung	550 W

Betriebsbedingungen	
Betriebstemperatur	0 - 45 °C
Temperaturbereich bei Lagerung	-20 - 70 °C
Relative Luftfeuchtigkeit in Betrieb	0 - 90%
Luftfeuchtigkeit bei Lagerung	0 - 95%
Höhe bei Betrieb	0 - 3000 m
Höhe bei Lagerung	0 - 3000 m

Gewicht und Abmessungen	
Breite	220 mm
Tiefe	300 mm
Höhe	43,2 mm
Gewicht	2,9 kg

Lieferumfang	
Mitgelieferte Kabel	AC, USB Typ-C
Schnellstartübersicht	✔
Rackmontageset	✔

Verpackungsdaten	
Steckertypen enthalten	EU, UK, NA

Nachhaltigkeit	
Nachhaltigkeitskonformität	✔

Zertifikate	
Konformitätsbescheinigungen	BSMI, CCC, CE, Eidgenössische Kommunikationskommission (FCC), Niederspannungsrichtlinie (LVD)



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