ComX Computers
Product Specification Sheet

XSM4396K1-100NES

Netgear M4300-96X 12-slot modular stackable managed Switch with 48-port 10G fiber SFP+ & APS600W PSU

Product Overview

Netgear M4300-96X 12-slot modular stackable managed Switch, Supports 8-port 10G and 2-port 40G expansion cards, XSM4396K0 (Empty Switch / no PSU), 48-port 10G Fiber SFP+ starter kit with one APS600W PSU, APS600W is the 600W Power Supply unit for non-PoE applications









Specifications

Overview:

The NETGEAR M4300 Stackable Switch Series delivers L2/L3/L4 and IPv4/IPv6 cost-effective services for mid-enterprise edge with full PoE+ and SMB core deployments with unrivalled ease of use: 10 Gigabit models can seamlessly stack with 1 Gigabit models within the series, enabling spine and leaf line-rate stacking topologies. Non-stop forwarding (NSF) virtual chassis architectures provide advanced High Availability (HA) with hitless failover across the stack. Dual redundant, modular power supplies equipping full width models contribute to business continuity management. Layer 3 feature set includes static, dynamic and policy-based routing - as standard. Perfect for wireless access, unified communications and IP video, the NETGEAR M4300 Switch Series is also ready for the future, with Software-defined Network (SDN) and OpenFlow 1.3 enabled for your network.

Features:

Best-in-class stacking

- M4300 is flexible enough for mixed stacking between 10 Gigabit and 1 Gigabit models, using any 10G port with any media type (RJ45, SFP+, DAC cables)
- High-availability is another key differentiator for stackable solutions: in case of a master switch failure, NSF and hitless failover ensure the standby switch takes over while forwarding plane continues to forward traffic on the operational stack members without any service interruption

10G / 40G modular solution

- The M4300-96X scales from 8 to 96 ports of 10G Ethernet by multiple of 8 ports, and from 2 to 24 ports of 40G Ethernet by multiple of 2 ports
- Better than a fixed port solution, the 96X lets you start small with maximum granularity between copper and fiber, including PoE+ over 10G, and grow later in "non-blocking" mode just by adding port expansion cards

Higher flexibility

- Two half-width M4300 switches can be paired in a single rack space for redundant Top of Rack installations with Auto-iSCSI prioritization
- 10 Gigabit ports are all independent and 1G backward compatible for progressive transition to 10G speeds

Lower complexity

- Entire feature set including L2 switching (multi-tiered access control) and L3 routing (static, RIP, OSPF, VRRP, PIM, PBR) is available without license
- DHCP/BootP innovative auto-installation including firmware and configuration file upload automation

Investment protection

- Line-rate spine and leaf stacking topologies offer multiple possibilities in server rooms, in branch collapsed cores or at the edge of growing networks
- Even if an organization is not ready for SDN, OpenFlow support offers future-ready design for maximum investment protection

Secure services

- With successive tiering, the Authentication Manager allows for authentication methods per port for a tiered authentication based on configured time-outs
- With BYOD, tiered Dot1x -> MAB -> Captive Portal authentication is powerful and simple to implement with strict policies

Industry standard management

- Industry standard command line interface (CLI), functional NETGEAR web interface (GUI), SNMP, sFlow and RSPAN
- Single-pane-of-glass NMS300 management platform with centralized firmware updates and mass-configuration support

Key

- Cost effective 1G access layer in campus LAN networks, and high performance 10G distribution layer for midsize organizations networks
- Zero Touch AV-over-IP with pre-configured L2 Multicast on all 1G models (1G AV encoders and decoders) and 10G models (SDVoE-ready)
- Advanced Layer 2, Layer 3 and Layer 4 feature set - no license required - including Policy Based Routing, RIP, VRRP, OSPF and PIM
- Innovative mixed "Spine and Leaf", 1G and 10G stacking with nonstop forwarding and hitless failover redundancy
- Low acoustics, half-width 16-port and 24-port 10G models can be paired in a single rack space for redundant Top of Rack
- Up to 384 (Gigabit) ports, 768 (10 Gigabit) ports, 192 (40 Gigabit) ports or a combination in a stack seen as one "logical" switch
- PoE+ (30 watts per port) with hot swap, redundant power supplies and full provisioning
- 48- and 96-port 10G models ultra-low latency and scalable table size with 128K MAC, 8K ARP/NDP, 4K VLANs, 12K routes
- Mixed Stack of 1G and 10G models provides 16K MAC, 2K ARP/NDP, 4K VLANs and 512 routes
- SDN-Ready OpenFlow 1.3 support for maximum investment protection

Software:

- Advanced classifier-based, time-based hardware implementation for L2 (MAC), L3 (IP) and L4 (UDP/TCP transport ports) security and prioritization
- Selectable Port-Channel / LAG (802.3ad - 802.1AX) L2/L3/L4 hashing for fault tolerance and load sharing with any type of Ethernet channeling
- Voice VLAN with SIP, H323 and SCCP protocols detection and LLDP-MED IP phones automatic QoS and VLAN configuration
- Efficient authentication tiering with successive DOT1X, MAB and Captive Portal methods for streamlined BYOD
- Comprehensive IPv4/IPv6 static and dynamic routing including Proxy ARP, OSPF, Policy-based routing and automatic 6-to-4 tunneling
- Enhanced IPv4/IPv6 multicast forwarding with IGMPv3/MLDv2 ASM and SSM Proxy and Control Packet Flooding protection
- High performance IPv4/IPv6 multicast routing with PIM timer accuracy and unhandled PIM (S,G,rpt) state machine events transitioning
- Advanced IPv4/IPv6 security implementation including malicious code detection, DHCP Snooping, IP Source Guard protection and DoS attacks mitigation
- Innovative multi-vendor Auto-iSCSI capabilities for easier virtualization optimization

Availability:

- Dual redundant, modular power supplies equipping full width models contribute to business continuity management
- Vertical or horizontal flexible stacking with management unit hitless failover and nonstop forwarding across operational stack members
- Spine and leaf architecture with every leaf switch (1G access switches) connecting to every spine switch (distributed 10G "core" switches)
- Stacking and distributed link aggregation allow for multi-resiliency with zero downtime and load balancing capabilities
- Link Dependency new feature enables or disables ports based on the link state of different ports
- Per VLAN Spanning Tree and Per VLAN Rapid Spanning Tree (PVSTP/PVRSTP) offer interoperability with PVST+ infrastructures

Management:

- DHCP/BootP innovative auto-installation including firmware and configuration file upload automation
- Industry standard SNMP, RMON, MIB, LLDP, AAA, sFlow and RSPAN remote mirroring implementation
- Service port for out-of-band Ethernet management (OOB)
- Standard RS232 straight-through serial RJ45 and Mini-USB ports for local management console
- Standard USB port for local storage, logs, configuration or image files
- Dual firmware image and configuration file for updates with minimum service interruption
- Industry standard command line interface (CLI) for IT admins used to other vendors commands
- Fully functional Web console (GUI) for IT admins who prefer an easy to use graphical interface
- Single-pane-of-glass NMS300 management platform with mass-configuration support

NETGEAR Warranty

- This product is backed by a NETGEAR ProSAFE Limited Lifetime Hardware Warranty.
- Lifetime Next Business Day Hardware Replacement. Click here for coverage, availability and terms and conditions.
- ProSUPPORT 24x7 Advanced Technical Support via phone for 90 days (Remote diagnostics performed by our technical experts for prompt resolution of technical issues). ProSUPPORT coverage can be extended by purchasing one, three, or five year contracts.
- ProSUPPORT Lifetime 24x7 Advanced Technical Support via chat.

Specifications:

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Specifications	
Product Code	XSM4396K1-100NES
Model Description	12-Slot Modular Stackable Managed Switch with 8-port 10G and 2-port 40G expansion cards
Ordering Number	XSM4396K0 (empty switch, no PSU)
	XSM4396K1 (48-port 10G fiber SFP+ starter kit with one APS600W PSU)
Acoustics	Without PoE: 35.8dB @ 25 degreesC (77 degreesF)
	With max PoE load: 66.8dB @ 25 degreesC (77 degreesF)
Power Consumption (Max)	Without PoE: 566 Watts
	With 1,440W PoE: 2,006 Watts
1G RJ45 Ports	-
10G RJ45 Ports	0 to 96 x 10GBASE-T (Fast Ethernet, 1G, 2.5G, 5G, and 10G speeds)
	APM408C is the 8 x 10GBASE-T port card
	APM408P is the 8 x 10GBASE-T PoE+ port card
10G Fiber SFP+ Ports	0 to 96 x SFP+ (1G and 10G speeds)
	APM408F is the 8 x SFP+ port card
40G Fiber QSFP+ Ports	0 to 24 x QSFP+ (4x10G and 40G speeds)
	APM402XL is the 2 x 40G QSFP+ port card
Power over Ethernet	0 to 48 x 10G PoE+ 30W
	Only the top 6 slots (out of 12) can support PoE+ operation
	APS1200W PSU is preferred for PoE+ operation
PoE Budget (Watts)	0W PoE Budget with 1 x APS600W PSU @ 110V/220V AC input
	634W PoE Budget with 2 x APS600W PSUs in shared EPS mode @ 110V/220V AC input
	720 W PoE Budget with 1 x APS1200W PSU @ 110V/220V AC input
	720 W PoE Budget with 2 x APS1200W PSUs in redundant RPS mode @ 110V/220V AC input
	1,084 W PoE Budget with APS600W + APS1200W PSUs in shared EPS mode @ 110V/220V AC input
	1,440 W PoE Budget with 2 x APS1200W PSUs in shared EPS mode @ 110V/220V AC input
Feature Set	Layer 3 (static, policy-based and RIP OSPF VRRP PIM dynamic routing)
Management Ports	1G Ethernet service port for out-of-band management (OOB, RJ45)
	RS232 straight-through serial RJ45 for local management console
	Mini-USB port for local management console
	USB port for local storage, logs, configuration or image files

Form Factor	2RU modular switch that comes either empty or in a starter kit with 48 SFP+ port
	Full width with dual, redundant modular PSUs for business continuity
	APS600W is the 600W power supply unit for non-PoE applications
	APS1200W is the 1,200W power supply unit for PoE applications

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/XSM4396K1-100NES-Netgear-M4300-96X-12-slot-modular-stackable-managed-Switch-with-p-224291.php

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