ComX Computers
Product Specification Sheet

XCM8903SK-10000S

NETGEAR M6100-44G3-POE+ CHASSIS STARTER KIT BUNDLE

Product Overview

NETGEAR M6100-44G3-POE+ CHASSIS STARTER KIT BUNDLE, M6100-Starter kit Includes: M6100 Base chassis (XCM8903),1x blade 40x1G + 4x10G (XCM8944), 1x PoE+ daughter card (XCM89P), 1x power supply unit (APS1000W), 1x fan tray front to back (AFT603) 2 blank panels for open blade slots 3 blank panels for empty PSU slots Handles for rack-mount kit Rack-mount kit for 2-post racks + Sliding rails kit for 4-post racks



Specifications

Overview:

M6100: The Latest Advances in Hardware and Software Engineering for Higher Flexibility, Lower Complexity and Stronger Investment Protection, at a High-Value Price Point.

The NETGEAR Chassis M6100 series delivers L2/L3/L4 and IPv4/IPv6 rich services for enterprise edge and SMB core deployments, as well as 1G / 10G mixed infrastructures in server rooms. Innovative distributed fabric provides non-stop forwarding resiliency and world-class availability - including passive backplane, hitless failover, redundant fabric and redundant management - without having to pay the exorbitant acquisition and maintenance costs associated by other networking vendors in this class.

World-class availability

- Dependable continuity of operations with non-stop switching, non-stop routing and hitless failover supported for both fabric and management
- N+1 redundancy for power supplies and loop-free, disruption-free multi-chassis link aggregation (MLAG)

High speed performance

- 1.4 Tbps total routing / switching capacity and up to 1,071 Mpps intra-blade throughput
- 480 Gbps distributed fabric inter-module with each slot providing 2 x 40G access to the passive backplane (80G half-duplex; 160G full-duplex)

Extra high-density

- Only 4U height (7 inches - 17.78cm) and 17.39 inches depth (44.16cm)
- Supports 144 RJ45 10/100/1000 ports, or 120 SFP 100/1000 ports, or 72 RJ45 10GBASE-T ports, or 48 SFP+ 1000/10GBASE-X ports, or a combination

Higher flexibility

- Distributed fabric removes the need for a dedicated supervisory module yet providing passive backplane, redundant fabric and redundant management
- Any I/O blade spares hardware and software distributed fabric on board, facilitating campus management, maintenance and upgrades

Lower complexity

- Entire feature set including datacenter (DCBX, PFC, ETS, FIP Snooping) and advanced IPv6 L3 routing (OSPF, PBR, BGP) is available without license
- Innovative slot-1 supervisory and slot-2 backup supervisory design simplifies the entire chassis installation and ongoing maintenance tasks

Investment protection

- Multi-role versatile platform engineered for cost-effective Gigabit edge, flexible Gigabit / 10 Gigabit distribution and scalable 10 Gigabit core applications
- Any Gigabit copper blade can be upgraded with PoE+ 30W or UPOE 60W daughter card and downgraded later if the application has changed

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

Features:

Key features

- Proficient access layer in campus LAN networks, and competent distribution or core layer for midsize organizations networks
- Advanced Layer 2, Layer 3 and Layer 4 feature set - no license required - including PBR, BGP, DCBX, PFC, ETS and FCoE FIP
- 1.4 Tbps switching and routing capacity, passive backplane, management and fabric nonstop forwarding redundancy
- Up to 144 (Gigabit) ports, or 72 (10 Gigabit) ports, or a combination of both in dense form factor models
- PoE+ (30 watts per port) and UPOE (60 watts per port) modular, flexible implementation
- Ultra-low latency and scalable table size with 32K MAC, 8K ARP/NDP, 4K VLANs, 12K routes

PoE and UPOE

- Any Gigabit copper blade can receive PoE+ or UPOE daughter cards for easy upgrade / downgrade and best investment protection
- Up to 3, 000W PoE budget is provided by internal power supplies when 6, 000W are available with additional 1U power shelf
- All set for rapid proliferation of PoE/PoE+ devices, such as IP telephony endpoints, 802.11n / 802.11ac access points and IP security cameras
- Future-proof 60W UPOE power delivered to next-gen VDI clients or physical security devices; UPOE is backward compatible with PoE/PoE+

Software

- Advanced classifier-based, time-based hardware implementation for L2 (MAC), L3 (IP) and L4 (UDP/TCP transport ports) security and prioritization
- 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
- Best-in-class IPv4/IPv6 static and dynamic routing including Proxy ARP, OSPF, BGP, Policy-based routing and automatic 6-to-4 tunneling
- Enhanced IPv4/IPv6 multicast forwarding with IGMPv3/MLDv2 Querier 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
- Datacenter-ready features include DCBX (802.1Qaz), Priority Flow Control (PFC), Enhanced Transmission Selection (ETS) and FCoE FIP Snooping

Resiliency and availability

- Passive backplane, distributed redundant fabric and redundant management provide hitless, nonstop forwarding failover protection for always-on availability
- Redundant N+1 power protection contributes to business continuity management
- Distributed Link Aggregation across all I/O blades allows for multi-resiliency and advanced load balancing capabilities
- Multi Chassis Link Aggregation (MLAG) between two M6100 switches overcomes limitations of Spanning Tree, increasing bandwidth while preserving redundancy
- Per VLAN Spanning Tree and Per VLAN Rapid Spanning Tree (PVSTP/PVRSTP) offer interoperability with PVST+ infrastructures
- Virtual Router Redundancy Protocol (VRRP) provides backup for any statically allocated next-hop router address going down, increasing default path availability

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
- Selectable service port for out-of-band Ethernet management (OOB)
- Selectable 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

Specifications:

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Product Code	XCM8903SK-10000S
Specifications	

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Specifications	
Product Code	XCM8903SK-10000S
Model Description	M6100-44G3-POE+ Chassis Starter Kit Bundle
Datasheet (Excel)	
Ordering Number	XCM8903SK-10000S
RJ45 Ports	40 x 10/100/1000
	2 x 10GBASE-T (independent)
Fiber SFP+ (1000/10G)	2 x SFP+ (independent)
Power over Ethernet	40 x PoE+ 802.3at with included XCM89P daughter card
Feature Set	License-free L2/L3/L4 and IPv4/IPv6 advanced software package
Form Factor	4U Base Chassis Bundle
	I/O Blade XCM8944
	Daughter Card XCM89P
	Power Supply Unit APS1000W
	Front-to-Back Fran Tray AFT603
	2-post Rack Mount Kit
	4-post Rack Sliding Rails

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/XCM8903SK-10000S-NETGEAR-M6100-44G3-POE-CHASSIS-STARTER-KIT-BUNDLE-p-125479.php

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