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Product Specification Sheet

XSM7224S-100EUS

Netgear XSM7224S ProSafe 24 Port 10 Gigabit Stackable Layer 2 Managed Switch

Product Overview

Netgear XSM7224S ProSafe 24 Port 10 Gigabit Stackable Layer 2 Managed Switch. The NETGEAR ProSafe 10 Gigabit Stackable Managed Switch, XSM7224S, allows for a flexible top-of-rack infrastructure. All 24 ports of 10 Gig



Specifications

Overview:

The NETGEAR ProSafe 10 Gigabit Stackable Managed Switch, XSM7224S, allows for a flexible top-of-rack infrastructure. All 24 ports of 10 Gigabit SFP interfaces are Gigabit/10 Gigabit capable and deliver wired speed performance with ultra low latency. Four shared 10GBase-T interfaces broaden 10 Gigabit connectivity with auto-sensing RJ45. Local/distant stacking provides versatile 10 Gigabit deployment possibilities, such as Distributed (LACP) Aggregation for virtualized servers and storage.

Features:

- Purposely built for virtualization and distributed LACP
- Top-of-Rack: stackable solution for Active-Active server teaming
- Aggregation and Core scalability with L3 licensing

Enterprise-class L2
Combining superior resiliency, enterprise-class security, and non-blocking performance, the XSM7224S offers a full set of Layer 2 management features, as well as Layer 2 (Layer 3 lite - IPv4 routing) with unsurpassed affordability. Together with VLAN routing, voice-class prioritization, and chassis-like stacking, the XSM7224S can be deployed as a data center Top-of-Rack switch, or closer to the core of small and medium businesses' growing networks, as a distribution layer 10 Gigabit Ethernet aggregation switch.

L3 Scalability
The Layer 3 upgrade license XSM7224L unlocks the IPv4/IPv6 dynamic routing capabilities of the XSM7224S. Purposely built for Enterprise networks and core / aggregation layers of SMB networks, an L3 upgraded XSM7224S provides advanced routing protocols such as OSPF, VRRP, and multicast for converged applications.

Data Center Availability
The NETGEAR Stackable, Managed 10 Gigabit Switch XSM7224S comes with a removable power module for the main power

supply with a second internal redundant power supply available as an option. Two removable fan trays increase the availability of the system, providing front-to-back cooling airflow for best compatibility with data center hot aisle / cold aisle airflow patterns.

Specifications:

Physical Interfaces	
Front	24 x 10 Gigabit SFP ports
	All SFP ports support 1000 Mbps/10 GE speed
	4 shared RJ45 auto-sensing 10GBaseT ports
	All RJ45 ports support 100 Mbps/1000 Mbps/10 GE speed
	USB port (config/firmware files storage)
	Serial RS-232 port for console
Total	24 x 10 Gigabit ports
Processor/Memory	Multi-core processor: Cavium CN5230-750 @ 750 MHz (four cores)
	System runtime memory: 512 MB (DDR2 SDRAM)
	Bootram: 32-bit 8 MB flash
	Packet buffer memory: 16 Mb per switch
	Code storage (flash): 128 MB
Hardware Stacking	Stack height: 4 switches
	4 ports used per switch
	All 24-port are stack-capable
	Shared RJ45 10GBaseT ports are also stack-capable
	Local stacking (copper) and distant stacking (fiber) possible mix and match
	Stacking performance: 80 Gbps (full duplex)

Performance Summary	Switching fabric: 480 Gbps
	Throughput: 357 Mpps
	Forwarding mode: Store and Forward
	Latency (64-byte frames, 1 Gbps):
	Latency (64-byte frames, 10 Gbps): < 1.59 us
	Addressing: 48-bit MAC address
	Address database size: 32, 000 MAC addresses
	Number of VLANs: 1, 024 (IEEE 802.1Q)
	Number of multicast groups filtered (L2): 1K
	Number of trunks: 64 trunks, 8-port per trunk
	Number of hardware queues for QoS: 8
	Number of ACLs: 100 ACLs and 16, 384 rules (supporting both ingress and egress ACL)
	ARP table: 6, 144
	Number of static routes: 64
	Number of IP interfaces: 128
	Number of Spanning Tree: 32
	Jumbo frame support: up to 9 K packet size
	Acoustic noise (ANSI-S10.12): 44 dB @ 25 degrees C ambient temperature
	Heat dissipation: 666.42 Btu/hr
	Mean time between failures (MTBF): 180, 178 hours (~20.5 years) @ 25 degrees C and 68, 419 hours (~ 7.8 years) @ 55 degrees C ambient temperature
L3 Services - Routing	L2 static routing (subnets, VLANs)
	64 static IP routes
	128 IP interfaces
	IP Source Guard
L3 Services - DHCP	DHCP server (1, 024 clients)
	DHCP L2 relay
	DHCP Snooping (32K bindings)
Services - Multicast	IGMP querier
Services - Switching	MAC address table: 32, 000
	ARP cache size: 6, 144
	Proxy ARP
	Dynamic ARP Inspection

L2 Services - VLANs	IEEE 802.1Q static VLAN (up to 1, 024 VLANs)
	IEEE 802.1v Protocol VLAN
	Port-based VLAN
	MAC-based VLAN
	IP subnet-based VLAN
	Protocol-based VLAN
	Voice VLAN (based on IP phones OUIs)
	Guest VLAN with IEEE 802.1x
	Auto-VLAN assignment via RADIUS
	IEEE 802.1 Q-in-Q (Double-VLAN tagging)
	GARP with GVRP/GMRP (automatic registration for membership in VLANs or in multicast groups)
	Private groups
L2 Services - Availability	IEEE 802.3ad Link Aggregation (Static or LACP) up to 64 trunks per stack and up to 8 ports per trunk
	802.1AX-2008
	User selectable LAG hashing algorithm (seven) for Load-Balancing
	IEEE 802.1D Spanning Tree Protocol (max 32 Spanning Trees)
	IEEE 802.1w Rapid Spanning Tree
	IEEE 802.1s Multiple Spanning Tree
L2 Services - Multicast	IGMP v1, v2, v3 snooping support
	IGMP querier mode support
	Static multicast filtering (1, 000 multicast groups)
L2/L3/L4 Services - QoS	IPv4/IPv6 L2/L3/L4 QoS: MAC, IP, TCP/UDP ports
	IEEE 802.1p Class of Service (CoS)
	DiffServ QoS (RFC 2998)
	Weighted round robin (WRR) queue technology
	Strict priority queue technology
	Ingress rate limit in 1 Kbps increments
	Ingress and egress traffic
	WRED (Weighted random early detection) queue management algorithm

L2/L3/L4 Services - Security	IPv4/IPv6 Access control lists (ACL) L2/L3/L4: MAC, IP, TCP
	MAC-based source/destination ACL
	IP subnet-based source/destination ACL
	Protocol-based source/destination ACL
	ACL over VLAN
	Dynamic ACL's
	Time ACL
	100 ACL's and 16, 384 rules
	Ingress and egress ACL
	Network storm protection including broadcast multicasts and unicast traffic
	DoS configurable protection
	End-to-end flow control (stand alone mode - not accross the stack)
	Service-aware flow control
	Data Center Mode flow control
	ICMP throttling
	Protected ports
	Port locking
	MAC filtering
	Port security
	DHCP snooping
	IP Source Guard
	Dynamic ARP inspection
	RADIUS (RFC 2865)
	RADIUS accounting (RFC 2866)
	IEEE 802.1x port access authentication (RADIUS)
	Network access control: Captive portal with internal authentication or external RADIUS authentication
	Possible configuration of 10 captive portals
	TACACS
	AAA IAS Users
	LLPF (Link Layer Protocol Filtering)
	IP Address Conflict Detection

IEEE Network Protocols	IEEE 802.3 Ethernet
	IEEE 802.3i 10BASE-T
	IEEE 802.3u 100BASE-T
	IEEE 802.3ab 1000BASE-T
	IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX
	IEEE 802.3ae 10-Gigabit Ethernet
	IEEE 802.3ad Trunking (LACP)
	IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)
	IEEE 802.1D Spanning Tree (STP)
	IEEE 802.1s Multiple Spanning Tree (MSTP)
	IEEE 802.1w Rapid Spanning Tree (RSTP)
	IEEE 802.1p Quality of Service
	IEEE 802.1Q VLAN tagging
	IEEE 802.1v protocol-based VLAN
	IEEE 802.1X Radius network access control
	IEEE 802.3x flow control
	IEEE 802.1Qbb Priority-Based Flow Control

IETF RFC Standards - System Facilities	RFC 768 UDP
	RFC 783 TFTP
	RFC 791 IP
	RFC 792 ICMP
	RFC 793 TCP
	RFC 826 Ethernet ARP
	RFC 894 transmission of IP datagrams over Ethernet networks
	RFC 896 congestion control in IP/TCP networks
	RFC 951 BOOTP
	RFC 1321 message-digest algorithm
	RFC 1534 interoperation between BOOTP and DHCP
	RFC 2131 DHCP client/server
	RFC 2132 DHCP options & BOOTP vendor extensions
	RFC 2030 Simple Network Time Protocol (SNTP) version 4 for IPv4, IPv6 and OSI
	RFC 2865 RADIUS Client (both switch and management access)
	RFC 2866 RADIUS Accounting
	RFC 2868 RADIUS attributes for Tunnel Protocol support
	RFC 2869 RADIUS Extensions
	RFC2869bis RADIUS support for Extensible Authentication Protocol (EAP)
	RFC 3164 The BSD Syslog Protocol
	RFC 3580 802.1X RADIUS usage guidelines (VLAN assignment via RADIUS, dynamic VLAN)
IETF RFC Standards - Switching MIB	RFC 1213 MIB-II
	RFC 1493 Bridge MIB
	RFC 1643 Ethernet-like MIB
	RFC 2233 The Interfaces Group MIB using SMI v2
	RFC 2674 VLAN MIB
	RFC 2613 SMON MIB
	RFC 2618 RADIUS Authentication Client MIB
	RFC 2620 RADIUS Accounting MIB
	RFC 2737 Entity MIB version 2
	RFC 2819 RMON Groups 1, 2, 3 & 9
	IEEE 802.1X MIB (IEEE 802.1-PAE-MIB 2004 Revision)
	IEEE 802.1AB - LLDP MIB
	ANSI/TIA 1057 - LLDP-MED MIB
	Private Enterprise MIBs supporting switching features

IETF RFC Standards - QOS	RFC 2474 definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 headers
	RFC 2475 an architecture for differentiated services
	RFC 2597 Assured Forwarding PHB Group
	RFC 3246 An Expedited Forwarding PHB (Per-Hop Behavior)
	RFC 3260 New Terminology and Clarifications for DiffServ
	RFC 3289 Management Information Base for the Differentiated Services Architecture (read-only)
	Private MIBs for full configuration of DiffServ, ACL and CoS functionality
IETF RFC Standards - Management	RFC 854 Telnet
	RFC 855 Telnet Option
	RFC 1155 SMI v1
	RFC 1157 SNMP
	RFC 1212 Concise MIB Definitions
	RFC 1867 HTML/2.0 Forms with file upload extensions
	RFC 1901 Community-based SNMP v2
	RFC 1908 Coexistence between SNMP v1 & SNMP v2
	RFC 2068 HTTP/1.1 protocol as updated by draft-ietf-http-v11-spec-rev-03
	RFC 2271 SNMP Framework MIB
	RFC 2295 Transparent Content Negotiation
	RFC 2296 Remote Variant Selection; RSVA/1.0 State Management "cookies" - draft-ietf-http-state-mgmt-05
	RFC 2576 Coexistence between SNMP v1, v2 and v3
	RFC 2578 SMI v2
	RFC 2579 Textual Conventions for SMI v2
	RFC 2580 Conformance statements for SMI v2
	RFC 3410 Introduction and Applicability Statements for Internet Standard Management Framework
	RFC 3411 An Architecture for Describing SNMP Management Frameworks
	RFC 3412 Message Processing & Dispatching
	RFC 3413 SNMP Applications
	RFC 3414 User-based Security Model
	RFC 3415 View-based Access Control Model
	RFC 3416 Version 2 of SNMP Protocol Operations
	RFC 3417 Transport Mappings
	RFC 3418 Management Information Base(MIB) for the Simple Network Management Protocol (SNMP)

SSL 3.0 and TLS 1.0	RFC 2246 The TLS Protocol, Version 1.0
	RFC 2818 HTTP over TLS
	RFC 2346 AES Ciphersuites for Transport Layer Security
SSH 1.5 and 2.0	RFC 4253 SSH Transport Layer Protocol
	RFC 4252 SSH Authentication Protocol
	RFC 4254 SSH Connection Protocol
	RFC 4251 SSH Protocol Architecture
	RFC 4716 SECSH Public Key File Format
	RFC 4419 Diffi e-Hellman Group Exchange for the SSH
	Transport Layer Protocol
Management	SNMP v1, v2c, v3 with multiple IP addresses
	LLDP, LLDP-MED
	Port mirroring support (many-to-one)
	Flow-based mirroring
	Syslog, Event log, Trap log, Email log event, ISDP
	TFTP, SFTP, HTTP, SCP, or local USB flash for configuration files and firmware upgrades
	Runtime image download (TFTP)
	Port description
	sFlow
	Web-based graphic user interface (Prosafe Control Center web GUI)
	Command Line interface (Industrial Standard CLI: ISCLI)
	IPv6 management
	Cable test
	SSLv3/TLSv1.0 Web security for the GUI
	Secure Shell (SSHv1, v2) for CLI
	Telnet sessions for management CPU (5 sessions)
	Configurable management VLAN
	Auto-install
	Admin access control via RADIUS or TACACS
LEDS	Per port: Speed, link, activity
	Per device: Power, fan status, stack ID
	Stack master
Physical Specifications	Dimensions (w x d x h): 440 x 431 x 43 mm (17.3 x 17 x 1.7 in)
	Weight: 6.3 kg (13.89 lb)
Power Consumption	195.2W maximum 100-240V AC, 50-60 Hz universal input (666.42 Btu/hr)
Environmental Specifications	

Operating	Temperature: 32 degrees to 122 degrees F (0 degrees to 50 degrees C)
	Humidity: 90% maximum relative humidity, non-condensing
	Altitude: 10, 000 ft (3, 000 m) maximum
Storage	Temperature: - 4 degrees to 158 degreesF (-20 degrees to 70 degreesC)
	Humidity: 95% maximum relative humidity, non-condensing
	Altitude: 10, 000 ft (3, 000 m) maximum
SafetyElectromagnetic Emissions and Immunity	CE mark, commercial
	FCC Part 15 Class A, VCCI Class A
	Class A EN 55022 (CISPR 22) Class A
	Class A C-Tick
	EN 50082-1
	EN 55024
Safety	CE mark, commercial
	CSA certified (CSA 22.2 #950)
	UL listed (UL 1950)/cUL IEC 950/EN 60950
Package Contents	ProSafe 24-port Stackable 10 Gigabit L2 Managed Switch (XSM7224S)
	Power cord
	Rubber footpads for tabletop installation
	Rubber caps for the SFP sockets
	Rack-mounting kit
	Null-modem serial cable (RS-232) with 9-pin connector
	Resource CD

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/XSM7224S-100EUS-Netgear-XSM7224S-ProSafe-24-Port-10-Gigabit-Stackable-Layer-2-Managed-p-68498.php

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