

## ProSAFE® 10 Gigabit Managed Switches

### Virtual Chassis Stacking Technology



### M7300 series XSM7224S

The 10 Gigabit Aggregation M7300 series switches are NETGEAR® fully managed and stackable switches for 1G/10G server access layer in campus and enterprise networks, and for high-density, high-performance 10GbE backbone architectures. The M7300 series delivers pure line-rate performance for top-of-rack virtualization or convergence, without having to pay the exorbitant acquisition and maintenance costs associated by other networking vendors. NETGEAR 10 Gigabit Aggregation solutions combine the latest advances in hardware and software engineering for higher availability, lower latency and stronger security, at a high-value price point. Like all NETGEAR products, the M7300 series delivers more functionality with less difficulty: Virtual Chassis Stacking, Private VLANs and Local Proxy ARP take the complexity out of delivering network services for virtualized servers and 10 Gigabit infrastructures.

#### NETGEAR 10 Gigabit M7300 series key features:

- Line-rate 24 ports 10G solution with low latency and stacking
- Support of Gigabit speeds across all 24 ports for smooth 10G transition
- 24 ports SFP+ for 1G/10G fiber uplinks, copper DAC connections or 1G RJ45 GBICs
- 4 ports 10GBase-T (RJ45) supporting Fast Ethernet, Gigabit Ethernet and 10 Gigabit speeds
- IPv4 routing in Layer 2+ package (static routing) with IPv4/IPv6 ACLs and QoS
- Optional license upgrade for IPv4/IPv6 routing (Layer 3 package, dynamic routing)
- Enterprise-class L2/L3 tables with 32K MAC, 6K ARP/NDP, 1K VLANs, 512 static L3 routes
- Two redundant, hot-swap power supplies (one PSU comes with the switch; second optional PSU is ordered separately)
- Two removable fan trays and front-to-back cooling airflow for best compatibility with data center hot aisle/cold aisle airflow patterns

#### NETGEAR 10 Gigabit M7300 series stacking features:

- True Virtual Chassis Stacking technology with up to four local or distant switches
- Any 10G port on the front panel can be used for stacking
- Highest availability with sub-second master failover for seamless L2/L3 switching
- Active-Active server teaming across the stack for best of both worlds (redundancy and load-balancing)
- Distributed Link Aggregation for STP-less network and backbone designs

#### NETGEAR 10 Gigabit M7300 series management features:

- DHCP/BootP innovative auto-installation including firmware and configuration file upload automation
- Industry standard SNMP, RMON, MIB, LLDP, AAA and sFlow implementation
- RS232 DB9 port for management console
- Standard USB port for local storage, 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

#### NETGEAR 10 Gigabit M7300 series warranty and support:

- NETGEAR ProSAFE Lifetime Hardware Warranty+
- Included ProSupport Lifetime 24x7 Advanced Technical Support\*
- Included 3-Year Next Business Day Onsite Hardware Replacement\*\*



**Lifetime  
Tech Support**

**NBD\* 3-year  
on-site service**

## Hardware at a Glance

	FRONT				REAR		
Model Name	100/1000/10GBase-T RJ45 ports	1000/10GBase-X Fiber SFP+ ports	Management console	Storage (image, config)	Modular PSUs (redundant, hot-swap)	Modular Fan Trays (front-to-back cooling, hot-swap)	Model number
M7300-24XF	4 (shared)	24	1 x RS232 DB9	1 x USB	2 (Part-number: APS300W)  (1 power supply already installed)	2 (Part-number: AFT200)  (2 fan trays already installed)	XSM7224S



M7300-24XF (XSM7224S) is a 24 x SFP+ version, Layer 2+

- 4 shared 10Gbase-T

- M7300 series rear view
- 2 modular, redundant PSUs
  - Each M7300 series ships with one installed modular PSU
  - Additional PSU unit is available for hot swap HA (APS300W)
- 2 modular fan trays
  - Each M7300 series ships with two installed fan trays
  - Spare units are available for hot swap HA (AFT200)

## Software at a Glance

	LAYER 2+ PACKAGE						LAYER 3 PACKAGE				
Model Name	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	Auto-VoIP	VLANs	Convergence	IPv4 Static Routing	IPv6 Static Routing	IPv4 Dynamic Routing	IPv6 Dynamic Routing	IPv4/IPv6 Multicast Routing	Model Number
M7300-24XF	L2, L3, L4, ingress, egress, 1 Kbps	IGMP and MLD Snooping and Proxy, Querier mode, MVR	Yes	Static, Dynamic, Voice, MAC, Subnet, Protocol-based, QoQ, Private VLANs	LLDP-MED, RADIUS, 802.1X, PoE timer	Yes (Port-based, Subnet, VLANs, Loopback)	Layer 3 licence upgrade: XSM7224L-10000S				XSM7224S
						Yes (Port-based, Subnet, VLANs)	RIP, OSPF, VRRP, ECMP, Proxy ARP, Multinetting	OSPFv3 Configured 6to4 Automatic 6to4	Static routes, PIM-SM, PIM-DM		

## Performance at a Glance

	TABLE SIZE										
Model Name	Packet buffer	CPU	ACLs	MAC ARP/NDP VLANs DHCP server	Number of Routes (IPv4/IPv6)	Static/RIP/OSPF route scaling	Fabric/Latency	Multicast IGMP Group membership	IP Multicast Forwarding Entries	sFlow	Model number
M7300-24XF	16 Mb	750Mhz 512M RAM 128M Flash	1K ingress 512 egress 16,384 rules	32K MAC 6K ARP/NDP VLANs: 1K DHCP: 16 pools 1,024 max leases	L3 route table size: 12,256	Static: 512 RIP: 512 OSPF: 12,256	480Gbps line-rate  SFP+ <1.59µs	2K IPv4 2K IPv6	1K IPv4 or 512 IPv4 256 IPv6	32 samplers 52 pollers 8 receivers	XSM7224S