



GSM7324

24-port Layer 3 Managed Gigabit Switch

- *Help is here when you need it! NETGEAR provides 24x7 telephone and e-mail technical support* in English, with selected local language support during office hours.*

High-speed, Layer 3 Managed Gigabit Switching

- Now you can enjoy full Layer 3, Gigabit functionality at an affordable price. The NETGEAR Managed Gigabit Switch provides maximum throughput and flexibility for demanding networks, with all the Layer 3 features you expect. This 10/100/1000 switch addresses today's high-performance requirements, while providing the control you need — and the future proofing you want. The GSM7324 is ideal as a backbone for 10/100 switches, Gigabit servers, or as the robust core of a demanding, all-Gigabit network.

The GSM7324 can be used to inexpensively off-load routers that are segmenting your network and lay the groundwork for new IP-based services. Layer 3 routing combined with Quality of Service, bandwidth provisioning and access control features enable Voice over IP (VoIP) telephony, video conferencing, and other cost-saving applications.

The GSM7324 Layer 3 Managed Gigabit Switch provides both Layer 2 and Layer 3 managed switching functionality. Its high-performance design offers a comprehensive set of features:

- Routing: IPv4 routing at wire speed, with up to 512 routes per unit; VRRP (IP redundancy), ICMP, RIP I and RIP II, OSPF2**, and DHCP/BOOTP relay
- Switching: Port trunking, broadcast storm protection, extensive VLAN support, IGMP snooping, Rapid Spanning Tree, and link aggregation
- Quality of Service: DiffServ, access control lists, and bandwidth provisioning

Very affordable, the GSM7324 provides the connection flexibility of 24 Copper Gigabit ports, and four small form-factor pluggable (SFP) modules, sold separately. All ports are auto-negotiating and support Auto Uplink™ technology.

- Robust** • The GSM7324 provides powerful, high-performance data routing and forwarding via 24 auto-sensing, auto-negotiating, Gigabit Ethernet ports. 24 ports are copper Gigabit Ethernet, with four ports offering optional hot-swappable SFP slots, enabling fiber connections.

- Easier Network Management** • The GSM7324 is simple to set up and use, with an intuitive browser interface for easy configuration. Choose from two management interface options – an easy-to-follow, browser-based interface, and a command line interface, available through console or Telnet. Configuration files can be loaded and saved using TFTP, reducing the need for on-site administration.

- Versatile** • A comprehensive set of Layer 3 features provides strong functionality in any network. For example, RIP routing for smaller networks and OSPF2 routing for larger, more complex networks. The GSM7324 helps maximize your network capabilities — and your return on investment.

- Cost-Effective** • Moderately priced to boost your network throughput without blowing your budget. Designed in a 1U form factor, this complete package comes equipped with a rack-mounting kit, terminal cable, and power cord.



Technical Specifications

- **Network Protocol and Standards Compatibility:**
 - IEEE 802.3 10BASE-T
 - IEEE 802.3u 100BASE-TX
 - IEEE 802.3z 1000BASE-SX
 - IEEE 802.3ab 1000BASE-T
 - IEEE 802.3x Flow Control
 - IEEE 802.3ad (LACP)
 - IEEE 802.1v Protocol VLAN & Port VLAN
 - IEEE 802.1w Rapid Spanning Tree
 - IEEE 802.1s Multiple Spanning Tree
- **Management Specifications:**
 - IEEE 802.1Q Static VLAN
 - IEEE 802.1p Class of Service (CoS)
 - IEEE 802.1D Spanning Tree Protocol
 - RFC 768 UDP
 - RFC 854-859 Telnet
 - RFC 1057 RIP
 - IGMP Snooping Support
 - Port Mirroring Support
 - RFC 1157 SNMP
 - RFC 1757 RMON groups 1,2,3, and 9
 - RFC 1534 DHCP and BootP Interoperation
 - RFC 1583 OSPF v2**
 - RFC 2131, 2132 DHCP and BootP
 - RFC 2236 IGMP v2
 - RFC 2328 OSPF v2
 - RFC 2338, 2787 VRRP
 - RFC 2453 RIP v2
 - RFC 2998 DiffServ
 - Private Enterprise MIB
 - Broadcast Storm Protection
- **System Parameters:**

- Number of VLANs	228
- Maximum VLAN ID	4069
- Number of 802.1p traffic classes	4
- Number of trunks (up to 8 ports)	6
- Number of routes	512
- Number of routed VLANs	24
- Number of ARP entries	2048
- Number of ACL rules (and entries) with 8 entries/rule	96 rules
- Number of Queues used for DiffServ	4
- Maximum rules per class	8
- Maximum instances per policy	10
- Maximum attributes per instance	1
- Maximum service interfaces	48
- **User Interfaces:**
 - Command Menu Interface via console port
 - Web-based management via web browser
 - Telnet remote login
- **Physical Interfaces:**
 - 24 RJ-45 connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T (Auto Uplink™ on all ports)
 - Four small form-factor pluggable (SFP) modules for fiber Gigabit Ethernet interfaces
 - RS-232 Console Port
- **LEDs:**
 - Per port: Speed, Link, Activity
 - Per device: Power, Fan Status
- **Performance Specifications:**
 - Forwarding modes: Store-and-forward
 - Bandwidth: 40 Gbps
 - Switch latency: < 20 μs for 64-byte frames
 - System memory: 128 MB
 - Packet buffer memory: 122 KB embedded memory per port
 - Code Storage (Flash): 16 MB
 - Address database size: 16,000 media access control (MAC) addresses
 - Addressing: 48-bit MAC address
 - Acoustic noise: (ANSI-S10.12) 60 dB
 - Heat Dissipation: 28.24 BTU/hr
 - Mean Time Between Failure (MTBF): 166,600 hours (~ 19 years)
- **Physical Specifications:**
 - Dimensions (w x d x h): 440 x 385 x 43 mm (17.32 x 15.16 x 1.7 in)
 - Weight: 5.5 kg (12 lbs.)
- **Environmental Specifications:**
 - Operating temperature: 0 to 40° C (32 to 104° F)
 - Storage temperature: -20 to 70° C (-4 to 158° F)
 - Operating humidity: 90% maximum relative humidity, noncondensing
 - Storage humidity: 95% maximum relative humidity, noncondensing
 - Operating altitude: 3,000 m (10,000 ft) maximum
 - Storage altitude: 3,000 m (10,000 ft) maximum
- **Electromagnetic Emissions:**
 - CE mark, commercial
 - FCC Part 15 Class A
 - VCCI Class A
 - EN 55022 (CISPR 22), Class A
 - C-Tick
- **Electromagnetic Immunity:**
 - EN 50082-1
 - EN 55024
- **Safety:**
 - CE mark, commercial
 - CSA certified (CSA 22.2 #950)
 - TUV licensed (EN 60 950)
 - UL listed (UL 1950)/CUL IEC950/EN60950
- **Modules:**
 - NETGEAR AGM731F SFP GBIC SX module for 1000BASE-SX connections with LC connectors for 50um or 62.5um multi-mode fiber cable
- **Warranty:**
 - NETGEAR 5-year warranty

Package Contents

- GSM7324 Managed Gigabit Switch
- Null modem cable
- Rack-mount kit
- Installation guide
- Resource CD-ROM
- Warranty card
- Support information card

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* Free hardware support provided for 90 days from date of purchase; optional premium support available

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** Available but not supported in Q3 2004. Fully supported in Q4 2004.