



GSM712

12-port Managed Gigabit Switch

High-Speed Managed Gigabit Switching

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

- Because it delivers Gigabit power and easy-to-use management, NETGEAR's Managed Gigabit Switch gives your small or growing business the high-performance network backbone you need, while providing the control you want. In combination with stacked FSM726S Managed Stackable Switches and Gigabit-speed servers, its integrated Gigabit connectivity accelerates access time for maximized productivity in your workplace.

This non-blocking switch is simple and straightforward, with two management interface options to choose from – an easy-to-follow, browser-based interface and a command line interface. Management features include SNMP, RMON, VLAN, DiffServ, RADIUS, 802.1x, CoS, port trunking, Spanning Tree, and port mirroring. Very affordable, it accommodates as many as 8,000 network users, with the connection flexibility of 10 Copper Gigabit ports and two slots for GBIC modules, sold separately.* All ports are auto-negotiating and support Auto Uplink™ technology.

*NETGEAR AGM721F GBIC SX module for 1000BASE-SX connections or NETGEAR AGM721T GBIC Copper Gigabit module for 1000BASE-T connections

Robust ● Non-blocking, the GSM712 provides powerful, high-performance data transfer via 12 Gigabit Ethernet ports.

Carefree ● Simple to setup and use, with an intuitive browser interface for easy configuration.

Versatile ● Use either built-in Copper Gigabit or GBIC slots to connect. This flexible switch also provides two management interface options to choose from. And you can use it as an unmanaged switch – saving the management features until you want them.

Cost Effective ● Moderately priced to boost your network throughput without blowing your budget.



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Netgear GSM712
Netgear, Inc.

NETGEAR
Everybody's Connecting.™

switch



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
- **Management Specifications:**
 - IEEE 802.1x Standard for Port Based Network Access Control***
 - IEEE 802.1Q Static VLAN (Up to 64)
 - IEEE 802.1p Class of Service (CoS)
 - IEEE 802.1D Spanning Tree Protocol
 - Port Trunking - Manual as per IEEE 802.3ad Link Aggregation Control (LACP)
 - IGMP Snooping Support
 - Port Mirroring Support
 - RFC 1157 SNMP
 - RFC 1757 RMON groups 1, 2, 3, and 9
 - RFC 1213 MIB II
 - RFC 1643 Ethernet Interface MIB
 - RFC 1493 Bridge MIB
 - RFC 951 BootP
 - RFC 2131 DHCP
 - RFC 2998 DiffServ
 - RFC 2865 RADIUS
 - Private Enterprise MIB
- **User Interfaces:**
 - Command Line Interface via console port or Telnet
 - Command Menu Interface via console port or Telnet
 - Web-based management via embedded HTTP server
- **Physical Interfaces:**
 - 10 RJ-45 connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T (Auto Uplink™ on all ports)
 - Two Gigabit Interface Converter (GBIC) slots for GBIC modules
 - RS-232 Console Port
- **LEDs:**
 - Per port: (10/100/1000 and Gigabit): Link, Mode (Max Speed, Activity, Full Duplex)
 - Per device: Power
- **Performance Specifications:**
 - Forwarding modes: Store-and-forward
 - Bandwidth: 24 Gbps (non-blocking)
 - Packet forwarding: 17.8 Mpps
 - Switch latency: < 80 μs for 64-byte frames (100 Mbps to 100 Mbps)
 - System memory: 16 MB
 - Packet buffer memory: 1.5 MB
 - Address database size: 8,000 media access control (MAC) addresses per system
 - Addressing: 48-bit MAC address
 - Acoustic noise: (ANSI-S10.12) 45 dB
 - Heat Dissipation: 18.99 BTU/hr
 - Mean Time Between Failure (MTBF): 58,300 hours (- 6.5 years)
- **Electrical Specifications:**
 - Power Consumption: 36W maximum
 - 100 - 240VAC/50-60 Hz universal inputs
- **Physical Specifications:**
 - Dimensions (w x d x h): 440 x 253 x 43 mm (17.32 x 9.96 x 1.7 in)
 - Weight: 3.2 kg (7.0 lbs)
- **Environmental Specifications:**
 - Operating temperature: 0 to 40°C (32 to 40°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: 10,000 ft (3,000 m) maximum
 - Storage altitude: 10,000 ft (3,000 m) maximum
- **Safety:**
 - CE mark, commercial
 - CSA certified (CSA 22.2 #950)
 - TUV licensed (EN 60 950)
 - UL listed (UL 1950)/CUL IEC950/EN60950
- **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
- **Modules:**
 - NETGEAR AGM721F GBIC SX module for 1000BASE-SX connections with SC connectors for 50um or 62.5um multi-mode fiber cable
 - NETGEAR AGM721T GBIC Copper Gigabit module for 1000BASE-T connections with an RJ-45 connector and Cat 5 or better cable
- **Warranty:**
 - NETGEAR 5-year warranty

Package Contents

- GSM712 Managed Gigabit Switch
- Null modem cable
- Rubber footpads for tabletop installation
- Power cable
- Rack-mount kit
- Installation guide
- Warranty card
- Support information card

NETGEAR Related Products

- FSM726 24+2 Managed Switch
- FSM726S 24+2 Managed Stackable Switch
- FSM750S 48+2 Managed Stackable Switch
- AGM721F 1000Base-SX GBIC module (SC connector)
- AGM721T 1000Base-T GBIC Copper Gigabit module

*** Available for free download July 2003

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** Free basic installation support provided for 90 days from date of purchase; optional premium support available.

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