GSM712F
12-port Managed Fiber Gigabit Switch

High-Speed Managed Gigabit Switching

○ 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 eight fiber gigabit ports and four combo ports (built-in RJ-45 gigabit ports with GBIC slot options).

*NETGEAR AGM721F GBIC SX module for 1000BASE-SX connections.

Robust ○ Non-blocking, the GSM712F 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 Fiber and Copper Gigabit or GBIC slots to connect. 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.

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 Client
  - RFC 2865 RADIUS
  - Private Enterprise MIB
  - Tested to work with HP OpenView

- **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:**
  - 8 SC connectors for 1000BASE-SX for either 50 um or 62.5 um multimode cable
  - 4 Combo ports (RJ-45 port for 10BASE-T, 100BASE-TX, and 1000BASE-T combined with Gigabit Interface Converter (GBIC) slot for a GBIC module
  - 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:** < 20 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)

- **Physical Specifications:**
  - **Dimensions** (w x d x h): 440 x 256 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 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:** 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
  - MIC

- **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

- **Warranty:**
  - NETGEAR 5-year warranty

Package Contents

- GSM712F Managed Fiber 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)

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