



# FSM750S

## 48-Port 10/100 Mbps Managed Stackable Switch with Gigabit Ports

### High Port Density with Layer 2 Management Flexibility

- *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.*

- A 48-port version of NETGEAR's popular FSM726S, this non-blocking, Layer 2 Fast Ethernet Stackable Managed Switch makes it easy for your growing business to keep pace with an increasing workflow. It delivers high port density, flexibility, and ease of use that's intuitive enough for new users but in a switch powerful enough for experienced professionals. You get two user interface options plus everything you need for stackable management. Built-in stacking ports provide simple, cost-effective stacking – no optional modules required. Built-in gigabit ports provide dedicated uplink connectivity without sacrificing stacking ports. A stacking cable is included at no extra cost. And GBIC slots offer standards-based flexibility for maximizing uplink bandwidth.

- Ultra Flexible** ● Two management options: an easy-to-follow browser-based interface, a command line interface, as well as an unmanaged option. Two built-in gigabit ports can be utilized as either copper gigabit uplinks or GBIC slots for optional fiber links. Can be stacked with additional FSM726S and FSM750S switches using dedicated stacking ports.

- Potent** ● This non-blocking switch provides high-performance data transfer via 48 10/100 ports, two built-in front gigabit uplinks, and two rear stacking ports that you can use to stack up to 144 ports and 6 gigabit ports.

- Highly Capable** ● Meets your management needs, supporting SNMP, RMON, DHCP, and BootP. Advanced features include VLAN, DiffServ traffic prioritization 802.1p (QoS), RADIUS, 802.1x, port trunking, Spanning Tree, and port mirroring. Configuration files can be loaded and saved for flexibility and reliability.

- Progressive** ● Use and stack it as an unmanaged switch – you can use each of the management features when you're ready for them. All ports are auto-negotiating and support Auto Uplink™ technology.

- Complete** ● NETGEAR's Fast Ethernet Stackable Managed Switch comes with stacking ports, gigabit uplinks, a stacking cable, and rack-mounting kit.



## Technical Specifications

### • Network Protocol and Standards Compatibility:

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3x Flow Control

### • LEDs:

- Per port (10/100 and Gigabit): Link, Speed, Duplex, Activity, Collision
- Per device: Power, Stack In, Stack Out, Master

### • Physical Interfaces:

- 48 RJ-45 connectors for 10BASE-T and 100BASE-TX (Auto Uplink™ on all ports)
- Two 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
- Rear Stacking Connectors

### • Performance Specifications:

- Forwarding modes: Store-and-forward
- Bandwidth: 20 Gbps (non-blocking)
- Packet forwarding: 13 Mpps
- Network latency: < 80 µs for 64-byte frames (100 Mbps to 100 Mbps)
- Packet buffer memory: 1.8 MB
- Addressing: 48-bit MAC address
- Address database size: 8,000 media access control (MAC) addresses per system
- Acoustic noise: (ANSI-S10.12) 48 dB
- Heat Dissipation: 29.866 BTU/hr
- Mean Time Between Failure (MTBF): 54,481 hours (-6 years)

### • 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 IEEE802.3ad Link Aggregation
- 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 Menu Interface via console port
- Web-based management via embedded HTTP server
- Telnet remote login

### • Electrical Specifications:

- Power consumption: 47W maximum
- Voltage: 100 - 127/200 - 240 VAC, 50-60 Hz

### • Physical Specifications:

- Dimensions: 440 x 260 x 86 mm (17.3 x 10.23 x 3.2 in)
- Weight: 4.5 kg (10 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

### • 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

### • Warranty:

- NETGEAR 5-year warranty

## Package Contents

- FSM750S Managed Stackable Switch
- Null modem cable
- Stacking cable
- Rubber footpads for tabletop installation
- Power cord
- Rack-mount kit
- User's guide
- Support information card
- Warranty card

## NETGEAR Related Products

- FSM726 24+2 Managed Switch
- FSM726S 24+2 Managed Stackable Switch
- GSM712 Managed Gigabit Switch
- AGM721F 1000Base-SX GBIC module (SC connector)

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

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\* available via a free download from the Netgear web site in July 2003