



GSM7248

ProSafe™ 48 Port Gigabit L2 Managed Switch

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

High-Speed, Layer 2 Managed Gigabit Switching

NETGEAR delivers wirespeed Gigabit performance and a full set of Layer 2 management features with unsurpassed affordability. This next-generation, high-speed switch delivers maximum throughput where you need it — to high-performance workgroups at the edge of the network, or as a backbone for Fast Ethernet switches and high-speed servers in demanding small networks. The non-blocking design offers full Gigabit throughput simultaneously to all 48 10/100/1000 ports to ensure reliable performance. Flexible fiber connectivity is enabled through four combination Small Form-factor Pluggable (SFP**) gigabit interfaces. Layer 2 management functionality delivers reliability, control, and availability. The very affordable NETGEAR ProSafe 48 Port Gigabit L2 Managed Switch GSM7248 creates a more productive — and future-proof — network. With increasing bandwidth requirements from applications such as voice, video, database management, and other services that slow throughput and response time, you can unleash your network and enable maximum productivity with Gigabit Ethernet for today's high-performance environments. Optimize bandwidth, security, and control with full Layer 2 management capabilities. Network administrators can use any combination of these features to ensure uptime, availability, bandwidth and throughput.

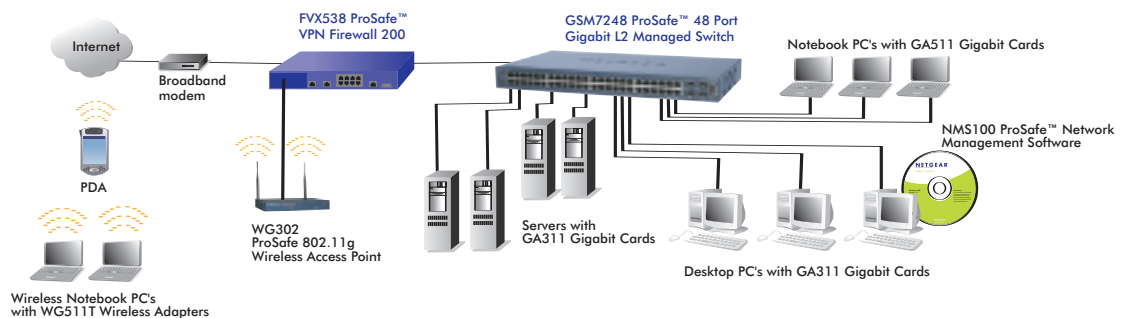
Powerful A full 48 10/100/1000 ports and a non-blocking design provide wire speed throughput and maximum bandwidth for the most demanding network environments. Small Form-factor Pluggable (SFP) modules deliver choice in 1000Base-SX, 1000Base-LX or 1000Base-ZX (70Km) optics. The Layer 2 management features optimize bandwidth throughout the network – delivering Gigabit performance to systems, applications, and services. Take advantage of forwarding rates up to 71.4 million pps, and a switching capacity of 96 Gbps.

Easy to Use Move up to Gigabit power in minutes. Use the GSM7248 as a managed switch out of the box – just plug and play! All ports are auto-negotiating and support Auto Uplink™ technology. Choose from two easy to use management interface options – Web interface or a command line interface available through console or Telnet. Comprehensive remote administration capabilities reduce the need for on-site administration. Easy to troubleshoot – built-in testing capability locates cable related network problems.

Manageable Meet your management needs with SNMP (v1, v2c and v3), RMON, Command-Line Interface (CLI) and complete Web-based GUI. Advanced features include up to 512 VLANs, DiffServ traffic prioritization and 802.1p (QoS) for Voice over IP services (VoIP), broadcast storm protection, RADIUS, 802.1x, port trunking, rapid spanning tree, and link aggregation. Full Layer 2 implementation allows you to configure your network for maximum performance, reliability, and availability. Manageable with any popular SNMP-based management software, but optimized for NETGEAR ProSafe Network Management Software NMS100.

Outstanding Layer 2 management and full Gigabit power at a compelling price. Use at the edge to improve workgroup connections, or at the core to upgrade a Gigabit Ethernet backbone — now you can afford the power your network deserves. Like all NETGEAR products, everything you need is in the box – including rack mount kit, power and serial cables, and more.

** Use with AGM731F 1000Base-SX SFP module, AGM732F 1000Base-LX SFP module or the AGM733 1000Base-ZX (70Km) SFP module.



Technical Specifications

- Network Protocol and Standards Compatibility:
 - IEEE 802.3 10BASE-T
 - IEEE 802.3u 100BASE-TX
 - IEEE 802.3ab 1000BASE-T
 - IEEE 802.3x Flow Control
- Management Specifications:
 - IEEE 802.1Q Static VLAN (Up to 512)
 - IEEE 802.1p Class of Service (CoS)
 - IEEE 802.3ad Link Aggregation Control Protocol (LACP)
 - IEEE 802.1D Spanning Tree Protocol
 - IEEE 802.1w Rapid Spanning Tree
 - IEEE 802.1s Multiple Spanning Tree
 - IEEE 802.1x Port Access Authentication
 - RFC 768 UDP
 - RFC 854-859 Telnet
 - IGMP Snooping Support
 - Port Mirroring Support
 - RFC 951 BootP
 - RFC 1157, 1902, 1903, 1904, 1905, 1906, 1907 SNMP v1, v2c, v3
 - RFC 1213 MIB II-RFC 1215 SNMP Traps
 - RFC 1493 Bridge MIB
 - RFC 1534 DHCP and BootP Interoperation
 - RFC 1643 Ethernet Interface MIB
 - RFC 1757 RMON groups 1,2,3, and 9
 - RFC 2131, 2132 DHCP and BootP
 - RFC 2865 RADIUS-RFC 2998 DiffServ
 - RFC 3046 DHCP Relay
 - Broadcast Storm Protection
 - Private Enterprise MIB
 - Broadcast Storm Protection
 - Weighted Round Robin (WRR) Queuing Technology
 - RFC 2030 Simple Network Time Protocol (SNTP)
 - SYSLOG
- User Interfaces:
 - Command Line Interface (CLI) via console port
 - Web-based management via embedded HTTP server protected with Secured Sockets Layer (SSLv3) or Transport Layer Security (TLS v1)
 - Telnet remote login (5 sessions) securable with Secured Shell (SSH v1.5, v2)
- Physical Interfaces:
 - 48 RJ-45 connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T (Auto Uplink and auto-negotiate on all ports)
 - 4 SFP connectors for fiber connection (shared with the last four copper ports)
 - RS-232 Console Port
- LEDs:
 - **Per port:** Speed, Link, Activity
 - **Per device:** Power, Fan Status
- Performance Specifications:
 - **Forwarding modes:** Store-and-forward
 - **Bandwidth:** 96 Gbps (non-blocking)
 - **Switch latency:** Less than 20 microseconds for 64-byte frames
 - **System memory:** 64 MB
 - **Packet buffer memory:** 122 KB embedded memory per port
 - **Code Storage (Flash):** 8 MB
 - **Address database size:** 8,000 media access control (MAC) addresses
 - **Addressing:** 48-bit MAC address
 - **Number of VLANs:** 512 (1-4069)
 - **Number of trunks:** 6
 - **Number of Queues:** 4
 - **Acoustic noise:** (ANSI-S10.12) 47 dB
 - **Heat Dissipation:** 28.24 Btu/hr
 - **Mean Time Between Failure (MTBF):** 57,800 hours (~ 6.5 years)
- Electrical Specifications:
 - **Power Consumption:** 90 W maximum
 - 100-240VAC/50-60 Hz universal inputs
- Physical Specifications:
 - **Dimensions:** H: 1.7" (43 mm), W: 17.32" (440 mm), D: 10.12" (257 mm)
 - **Weight:** 9.24 lb (4.2 kg)
- 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, non-condensing
 - **Storage humidity:** 95% maximum relative humidity, non-condensing
 - **Operating altitude:** 10,000 ft (3,000 m) maximum
 - **Storage altitude:** 10,000 ft (3,000 m) 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)
 - UL listed (UL 1950)/CUL IEC950/EN60950
- Warranty:
 - NETGEAR 5-year warranty

NETGEAR Related Products

- ProSafe™ 24 Port Gigabit L2 Managed Switch Model GSM7224
- ProSafe™ 12 Port Gigabit L2 Managed Switch Model GSM7212
- ProSafe™ 24 Port 10/100 L2 Managed Stackable Switch with 2 Gigabit Ports Model FSM726S
- ProSafe™ 48 Port 10/100 L2 Managed Stackable Switch with 2 Gigabit Ports Model FSM750S
- ProSafe™ 24 Port 10/100 L2 Managed Switch with 2 Gigabit Ports Model FSM726
- ProSafe™ 48 Port Gigabit Smart Switch Model GS748Ts
- ProSafe™ 48 Port Gigabit Smart Switch Model GS748T
- ProSafe™ 24 Port Gigabit Smart Switch Model GS724T
- 32-bit Gigabit PCI Adapter Model GA311
- Gigabit PC Card Model GA511
- Network Management Software Model NMS100
- ProSafe™ GBIC Module 1000BASE-SX Fiber SFP Model AGM731F
- ProSafe™ GBIC Module 1000BASE-LX Fiber SFP Model AGM732F
- Layer 2 Support Pack P3L21 - 1 year
- Layer 2 Support Pack P3L23 - 3 years



4500 Great America Parkway
Santa Clara, CA 95054 USA
Phone: 1-888-NETGEAR
E-mail: info@NETGEAR.com
www.NETGEAR.com

©2005 NETGEAR, Inc. NETGEAR®, Everybody's connecting®, the Netgear logo, Auto Uplink, ProSafe, Smart Wizard and RangeMax are trademarks or registered trademarks of NETGEAR, Inc. in the United States and/or other countries. Microsoft, Windows, and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Other brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice. All rights reserved.

* Free basic installation support provided for 90 days from date of purchase. Advanced product features and configurations are not included in free basic installation support; optional premium support available.

Package Contents

- GSM7248 ProSafe 48 Port Gigabit L2 Managed Switch
- Power cable
- Null modem cable
- Rubber footpads for tabletop installation
- Rackmount kit
- Installation guide
- Resource CD
- Warranty/Support information card