GS748T
ProSafe™ Switch
48-port Gigabit Smart Switch

High Port Density Gigabit with Browser-based Management Included

Joining NETGEAR's family of Smart Switches with simple switch management at no extra cost, this 1U high, 48-port Gigabit switch maximizes bandwidth and density for great value and capability. With 48 10/100/1000 Mbps ports, each capable of powering 2000 Mbps of data throughput in full-duplex mode, plus four optional fiber ports, it provides a 40 Gbps back-bone and connects servers or power users, delivering large amounts of multimedia, image, and video information in no time at all. Standards-based, it is ideal for combining 10, 100, and 1000 Mbps devices, as it delivers automatic speed and full/half-duplex sensing plus Auto Uplink™ on every port. Four hot-swappable Small Form-factor Pluggable (SFP)** GBIC slots provide optional fiber connectivity for greater distance. An intuitive, web-browser interface offers simple switch management, making it a snap to monitor switch performance, configure ports, even set up trunks, VLANs, and prioritization.

High Density 48 10/100/1000 ports deliver full-speed packet forwarding in a 1U size to migrate your network to future-proof functionality. Four SFP GBIC fiber slots provide optional fiber connectivity for greater distance.
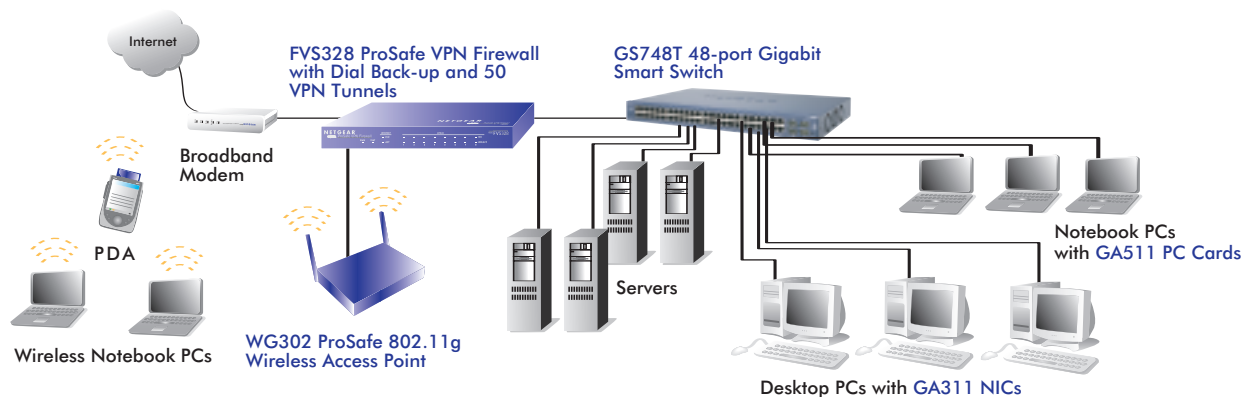
Intelligent Smart Switch capability enables key management features for the value price of an unmanaged switch. Included are performance monitoring, port configuration, VLAN for traffic control, port trunking for increased bandwidth, and Class of Service (CoS) for traffic prioritization.

Right Sized Ideal for growing businesses who want the benefits of management without the cost. Compatible with Windows, MAC and Linux operating systems.***

Easygoing and Durable Simple to set up and simple to use for effortless network monitoring and troubleshooting. Made to last, this sturdy switch is housed in a 17-inch metal box and comes with a rack mounting kit.

**Use with NETGEAR AGM731F 1000BASE-SX SFP GBIC module or NETGEAR AGM732F 1000BASE-LX SFP GBIC module.
*** Requires PC for initial discovery of Smart Switch features.

FVS328 ProSafe VPN Firewall with Dial Back-up and 50 VPN Tunnels

GS748T 48-port Gigabit Smart Switch

Internet

Broadband Modem

PDA

Notebook PCs with GA511 PC Cards

Servers

Wireless Notebook PCs

WG302 ProSafe 802.11g Wireless Access Point

Desktop PCs with GA311 NICs

NETGEAR®
Everybody's connecting.

Product Specifications

- Network Protocol and
  Standards Compatibility
  - IEEE 802.3 10BASE-T Ethernet
  - IEEE 802.3u 100BASE-TX Fast Ethernet
  - IEEE 802.3ab 1000BASE-T Gigabit Ethernet
  - IEEE 802.3x full-duplex flow control

- Interfaces
  - 48 RJ-45 connectors for 10BASE-T,
    100BASE-TX, and 1000BASE-T (Auto Uplink
    on all ports)
  - 4 SFP slots for fiber Gigabit Ethernet modules

- Administrative Switch Management
  - IEEE 802.1Q Tag VLAN (up to 64 Static
    VLAN groups)
  - Port-based VLAN (up to 48 groups)
  - IEEE 802.1p (Class of Service)
  - Port-based QoS (options High/Normal)
  - Port Trunking - Manual as per IEEE802.3ad
    Link Aggregation
  - DHCP client function
  - Port setting
  - Web-based configuration, anywhere on
    the network
  - Smart Wizard Discovery Utility program auto
    discovers devices (up to 254 agents/switches); set
    system configuration to each agent
  - Configuration Backup/Restore (easy to configure
    more than one switch)
  - Password access control and Restricted IP
    Access List
  - Firmware upgradeable

- Active Flow Control
  - Half-duplex back-pressure control
  - Full-duplex IEEE 802.3x pause frame flow control

- Performance Specifications
  - **Forwarding modes:** Store-and-forward
  - **Bandwidth:** 40 Gbps
  - **Network latency:** Less than 20 µs for 64-byte
    frames in store-and-forward mode for100 Mbps
    to 100 Mbps transmission
  - **Buffer memory:** 1,632 KB embedded memory
    per unit
  - **Address database size:** 16,000 media access
    control (MAC) addresses per system
  - **Addressing:** 48-bit MAC address
  - **Mean Time Between Failure (MTBF):** 69,930
    hours (~8 years)

- LEDs
  - **Unit:** power
  - **Per port:** link, activity, speed

- Power Supply
  - **Power Consumption:** 70 W maximum
  - 100-240VAC/50-60 Hz universal input

- Physical Specifications
  - **Dimensions (H x W x D):** 1.7 x 17.3 x 10.25 in.
    (43 x 440 x 260 mm)
  - **Weight:** 8.8 lbs (4.0 kg)

- Environmental Specifications
  - **Operating temperature:** 32 to 104°F (0 to 40° C)
  - **Storage temperature:** 14 to 158°F (-10 to 70°C)
  - **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 Compliance
  - CE mark, commercial
  - FCC Part 15 Class A
  - VCCI Class A
  - EN 55022 (CISPR 22), Class A
  - EN 50082-1
  - EN 55024
  - C-Tick

- Safety Agency Approvals
  - UL listed (UL 1950)/cUL
  - IEC950/EN60950

- Warranty
  - NETGEAR 5-year warranty

System Requirements
  - Category 5 network cables
  - Network card for each PC
  - Network software (e.g., Windows®)

Package Contents
  - 48-port Gigabit Smart Switch GS748T
  - Rubber footpads
  - Power cord
  - Rack-mount kit
  - Smart Switch Resource CD
  - Smart Switch Installation guide
  - Warranty/Support information card

Modules
  - NETGEAR AGM731F 1000BASE-SX SFP GBIC
    Module with LC connectors for 50um or 62.5um
    multi-mode fiber cable
  - NETGEAR AGM732F Fiber 1000BASE-LX SFP GBIC
    Module with LC connectors for 9um single-mode
    fiber cable

Related NETGEAR ProSafe Products
  - GA311 32-bit Gigabit
    PCI Adapter
  - GS105 5-port Gigabit Switch
  - GS108 8-port Gigabit Switch
  - GS116 16-port Gigabit Switch
  - GS516T 16-port Gigabit Switch
  - GS524T 24-port Gigabit Switch
  - FS526T 24-port 10/100 Smart
    Switch with 2 Gigabit Ports
  - FS750T 48-port 10/100 Smart
    Switch with 2 Gigabit Ports
  - GS724T 24-port Gigabit
    Smart Switch
  - P3L21 Layer 2 Support Pack
    – 1 year
  - P3L23 Layer 2 Support Pack
    – 3 years

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