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 96 Gbps backbone 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 setup trunks, VLANs, and prioritization.

High Density

48 10/100/1000 Mbps 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.***
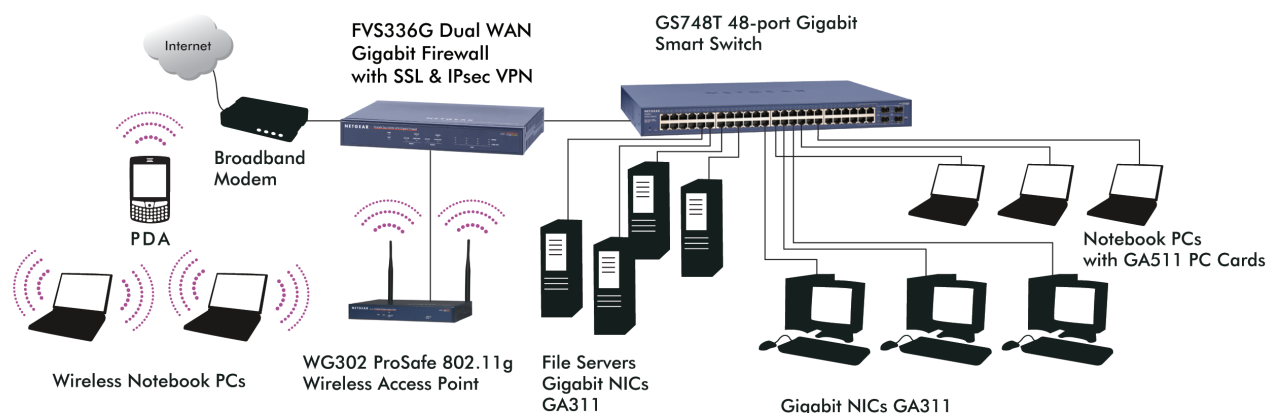
Easygoing and Durable

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, NETGEAR AGM732F 1000BASE-LX SFP GBIC module or NETGEAR AGM733 1000BASE-ZX SFP GBIC Module.

*** Requires PC for initial discovery of Smart Switch features.

24/7
TECHNICAL
SUPPORT*

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PROSAFE®
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Internet

FVS336G Dual WAN
Gigabit Firewall
with SSL & IPsec VPN

GS748T 48-port Gigabit
Smart Switch

Broadband
Modem

PDA

Notebook PCs
with GA511 PC Cards

Wireless Notebook PCs

WG302 ProSafe 802.11g
Wireless Access Point

File Servers
Gigabit NICs
GA311

Gigabit NICs GA311

Technical 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 shared SFP slots for fiber Gigabit Ethernet modules

• Administrative Switch Management
– IEEE 802.1Q Tag VLAN (up to 128 static VLAN groups)
– Port-based VLAN (up to 48 groups)
– IEEE 802.1p (Class of Service)
– DSCP Layer QoS
– IEEE 802.3ad static or dynamic link aggregation (LACP)
– DHCP client function
– Rapid Spanning Tree – 802.1w
– IGMP snooping V1
– SNMP V1/V2c
– 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
– Rate limiting
– Trusted MAC access control

• Performance Specifications
– Forwarding modes: Store-and-forward
– Bandwidth: 96 Gbps
– Network latency: Less than 20 μs for 64-byte frames in store-and-forward mode for100 Mbps to 100 Mbps transmission
– Jumbo frame support
– Buffer memory: 4 MB embedded memory per unit
– Address database size: 8,000 media access control (MAC) addresses per system
– Addressing: 48-bit MAC address
– Mean time between failures (MTBF): 108,000 hours (~12 years)
– Acoustic noise: 52 dBA

• LEDs
– Unit: Power
– Per port: Link, activity, speed

• Power Supply
– Power consumption: 66W maximum
– 100-240V AC/50-60 Hz universal input

• Physical Specifications
– Dimensions (H x W x D): 440 x 305 x 43mm (17.3 x 12.0 x 1.7in)
– Weight: 4.9 kg/10.8 lb

• Environmental Specifications
– Operating temperature: 0° to 50° C (32° to 122° F)
– Storage temperature: -10° to 70° C (14° to 158° F)
– Operating humidity: 90% maximum relative humidity, non-condensing
– Storage humidity: 95% maximum relative humidity, non-condensing
– Operating altitude: 3,000 m (10,000 ft) maximum
– Storage altitude: 3,000 m (10,000 ft) 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
– IEC 950/EN 60950

Warranty
– NETGEAR Lifetime Warranty†

System Requirements
– Category 5 UTP network cables or better
– 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

– ProSafe AGM731F 1000BASE-SX SFP GBIC
– ProSafe AGM732F 1000BASE-LX SFP GBIC
– ProSafe AGM733 1000BASE-ZX SFP GBIC

Ordering Information

– North America: GS748TNA
– Europe: GS748TEU
– Asia: GS748TAU

ProSupport Packages Available

• **OnCall 24x7, Category 2**
  – PMB0332

• **XPressHW, Category 2**
  – PRR0332-100

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*Basic technical support provided for 90 days from date of purchase.

†Lifetime warranty for product purchased after 05/01/2007. For product purchased before 05/01/2007, warranty is 5 years.

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