NETGEAR Smart GS748T(GS748T-500EUS)
ProSAFE 48-Port Gigabit Smart Switch (With 2x Dedicated SFP Ports &2x Combo Copper/SFP Ports)

The NETGEAR ProSAFE Gigabit Smart Managed switches offer powerful Layer 3 Lite features with enhanced performance and usability. They are purposely designed for the future where increased traffic and application-oriented tasks demands more intelligence at the edge,higher reliability and improved network efficiency on top of operational cost savings and ease of management.

Key Selling Points

Designed for converged network,big or small
Gigabit speed with non-blocking architecture supporting 100% Gigabit throughput
Auto Voice VLAN for fast and reliable deployment of VoIP
Auto Video VLAN,following the same concept of Auto Voice,helps speed up your deployment of IP-based surveillance system
Static routing,helps to route internal traffic for more efficient use of network resources
IGMP and MLD snooping,providing advanced multicast filtering
Comprehensive IPv6 supporting management,QoS and ACL,ensuring investment protection and a smooth migration to IPv6-based network
Dedicated SFPs instead of combo ports,offering more connectivity ports and providing better value and usability at no extra cost
Energy Efficient Ethernet (IEEE802.3az) support for more energy saving in the future
Advanced QoS with IPv4/IPv6 ingress traffic filtering and prioritization
Dynamic VLAN assignment for easy user authentication and location-independent access to network
Multicast VLAN registration for eliminating unnecessary multicast traffic and improve the efficiency of network utilization
ACL Wizard for a guided tour to set up your network access control
Smart Control Center,a powerful tool for multi-switch discovery,deployment,monitoring and firmware upgrade
Network Management System (NMS300) allowing all NETGEAR business products to be deployed and managed through this single management interface
Easy to manage via web-Based Management GUI or Smart Control Center for multi-switch deployment
Standard-based technology,ensuring interoperability with any standard-based devices in the existing network
Dual firmware images,improving reliability and uptime to your network

Product Features

Comprehensive QoS features

Port-based or 802.1p-based prioritization. Layer 3-based (DSCP) prioritization. Port-based ingress and egress rate limiting. Advanced controls for optimized network performance and better delivery of mission-critical traffic such as voice and video.

DHCP Snooping

Ensure IP address allocation integrity by allowing only clients with specific IP/MAC addresses to have access to the network.

Dual firmware images and configuration files

Dual firmware image and dual configuration file for transparent firmware updates/configuration changes with minimum service interruption.

Protected ports

Ensure no exchange of unicast,broadcast,or multicast traffic between the protected ports on the switch,therefore,improve the security of your converged network where your sensitive phone conversation can stay private and your surveillance video clips can be forwarded to their designated storage device without leakage or alteration.

Dynamic ARP inspection

Prevents a class of man-in-the-middle attacks,where an unfriendly station intercepts traffic for other stations by poisoning the ARP caches of its unsuspecting neighbors.

Multicast VLAN registration

Eliminates the replication of the same multicast traffic for every VLAN by sending multicast traffic only on to the dedicated multicast/source VLAN,resulting in more efficient utilization of network bandwidth.

Main Specifications

Product Description	NETGEAR Smart GS748T - V5 - switch - 48 ports - Managed - rack-mountable
Device Type	Switch - 48 ports - L3 Lite - Managed
Enclosure Type	Rack-mountable 1U

Subtype	Gigabit Ethernet
Ports	48 x 10/100/1000 + 2 x Gigabit SFP + 2 x combo Gigabit SFP
Performance	Bandwidth: 100 Gbps
Capacity	Virtual interfaces (VLANs): 256 ¦ACL entries: 100 ¦Static routes: 32 ¦Layer 2 multicast groups: 512 ¦ARP entries: 512 ¦Priority queues per port: 8
MAC Address Table Size	16K entries
Jumbo Frame Support	9KB
Routing Protocol	IGMPv2,IGMP,IGMPv3,MLDv2,MLD
Remote Management Protocol	SNMP 1,SNMP 2,RMON 1,RMON 2,RMON 3,RMON 9,SNMP 3,HTTP,HTTPS,TFTP
Features	Flow control,ARP support,VLAN support,IGMP snooping,Syslog support,DoS attack prevention,port mirroring,DiffServ support,Weighted Round Robin (WRR) queuing,store and forward,Broadcast Storm Control,full duplex mode,Multicast Storm Control,Unicast Storm Control,Spanning Tree Protocol (STP) support,Rapid Spanning Tree Protocol (RSTP) support,Multiple Spanning Tree Protocol (MSTP) support,DHCP snooping,Access Control List (ACL) support,MLD snooping,Dynamic ARP Inspection (DAI),LLDP support,DHCP client,Energy Efficient Ethernet,Strict Priority Queuing (SPQ),static routing,802.1x authentication,Type of Service (ToS),VoIP support,DiffServ Code Point (DSCP) support,cable test,administrator's password,ARP inspection
Compliant Standards	IEEE 802.3,IEEE 802.3u,IEEE 802.3i,IEEE 802.3z,IEEE 802.1D,IEEE 802.1Q,IEEE 802.1p,IEEE 802.3x,IEEE 802.3ad (LACP),IEEE 802.1w,IEEE 802.1x,IEEE 802.1s,IEEE 802.1ab (LLDP),IEEE 802.3az
Dimensions (WxDxH)	44 cm x 25.7 cm x 4.3 cm
Weight	3.46 kg
Localisation	Europe
Manufacturer Warranty	NETGEAR lifetime warranty

Extended Specification

General

Device Type	Switch - 48 ports - L3 Lite - Managed
Enclosure Type	Desktop,rack-mountable 1U
Subtype	Gigabit Ethernet
Ports	48 x 10/100/1000 + 2 x Gigabit SFP + 2 x combo Gigabit SFP
Performance	Bandwidth:100 Gbps
Capacity	Virtual interfaces (VLANs):256 ACL entries:100 Static routes:32 Layer 2 multicast groups:512 ARP entries:512 Priority queues per port:8
MAC Address Table Size	16K entries
Jumbo Frame Support	9KB
Routing Protocol	IGMPv2,IGMP,IGMPv3,MLDv2,MLD
Remote Management Protocol	SNMP 1,SNMP 2,RMON 1,RMON 2,RMON 3,RMON 9,SNMP 3,HTTP,HTTPS,TFTP
Encryption Algorithm	SSL,TLS 1.0
Authentication Method	RADIUS,TACACS+
Features	Flow control,ARP support,VLAN support,IGMP snooping,Syslog support,DoS attack prevention,port mirroring,DiffServ support,Weighted Round Robin (WRR) queuing,store and forward,Broadcast Storm Control,full duplex mode,Multicast Storm Control,Unicast Storm Control,Spanning Tree Protocol (STP) support,Rapid Spanning Tree Protocol (RSTP)

	support,Multiple Spanning Tree Protocol (MSTP) support,DHCP snooping,Access Control List (ACL) support,MLD snooping,Dynamic ARP Inspection (DAI),LLDP support,DHCP client,Energy Efficient Ethernet,Strict Priority Queuing (SPQ),static routing,802.1x authentication,Type of Service (ToS),VoIP support,DiffServ Code Point (DSCP) support,cable test,administrator's password,ARP inspection
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Status Indicators	Port transmission speed,link/activity

Expansion / Connectivity

Interfaces	48 x 1000Base-T RJ-45 2 x 1000Base-X SFP 2 x 1000Base-X SFP uplink

Power

Power Device	Internal power supply
Power Consumption Operational	41.4 Watt

Miscellaneous

Rack Mounting Kit	Included
MTBF	390,728 hours
Compliant Standards	cUL,EN 60950,IEC950,UL 1950,EN55024,CSA 22.2 No. 950,EN55022 Class A,CISPR 22,EN50082-1,CCC,FCC Part 15 A,C-Tick Class A,VCCI Class A,TLS v1.0
Localisation	Europe

Software / System Requirements

Software Included	Drivers & Utilities

Dimensions &Weight

Width	44 cm
Depth	25.7 cm
Height	4.3 cm
Weight	3.46 kg

Manufacturer Warranty

Service &Support	NETGEAR lifetime warranty

Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	50 °C
Humidity Range Operating	0 - 90% (non-condensing)
Min Storage Temperature	-20 °C
Max Storage Temperature	70 °C
Humidity Range Storage	0 - 95% (non-condensing)

What's in the box

NETGEAR ProSAFE GS748T 48-Port Gigabit Smart Managed Switch
Rack mounting kit