NETGEAR®



Experience the New Generation of Gigabit Smart Switches

The NETGEAR® new generation of Gigabit Smart switches offers new, powerful L2+/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 realiability and improved network efficiency on top of operational cost savings and ease of management.

There are two products in this series: a 24-port and a 48-port Gigabit Ethernet Smart switch.

The GS724T comes with 2 dedicated Gigabit SFP ports for fiber connectivity while the GS748T comes with 2 dedicated Gigabit SFP and 2 combo copper/SFP ports, all with increased number of simultaneously connected ports.

This new generation of Gigabit Smart switch from NETGEAR is the optimized solution providing the best value at an affordable SMB price point.

Highlights

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, help 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

Build a Future-proof Network with NETGEAR

- Solid performance with nonblocking architecture, 16K MAC addresses, 256 VLANs, 100 shared ACL entries, 32static routes, and 512 Multicast Groups
- 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 when
 more IEEE-compliant end devices
 come to market
- Advanced QoS with IPv4/ IPv6 traffic filtering and prioritization

NETGEAR® BUSINESS

- 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

Network Development Made Easy

- Auto Voice VLAN for easy development of VoIP
- Auto Video for simple deployment of IP Surveillance
- ACL Wizard for a guided tour to set up your network access control

 Network Management System (NMS300), allowing all NETGEAR business products to be deployed and managed through this single management interface

Small IT, not Big IT

- Easy to manage via web-based management GUI 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
- Worry-free with NETGEAR limited lifetime hardware warranty*
- Assist with customer deployment with 1-year Free 24x7 advanced Technical support*









Hardware-at-a-Glance

		FRON	REAR		
Model Name	Form-Factor	10/100/1000Base-T RJ45 ports	100/1000X Fiber SFP ports	Power Supply	Fans
GS724T	Rack mount	24	2 (Dedicated)	Internal	No
GS748T	Rack mount	48	2 (Dedicated) + 2 (Combo)	Internal	1





GS724T: 24-port 1000base-T Gigabit Smart Switch

- 24 Gigabit copper ports
- 2 dedicated SFP ports
- Fanless

GS748T: 48-port 1000base-T Gigabit Smart Switch

- 48 Gigabit copper ports
- 2 dedicated SFP ports and 2 combo copper/SFP ports

Software-at-a-Glance

Management	IPv4 / IPv6 Multicast filtering	Auto-VoIP	EEE (802.3az) Auto-EEE	VLANs	Convergence
Web GUI: HTTPs; RMON SNMP	IGMP and MLD Snooping	Yes	Yes	Static, Voice Video, MAC, Protocol-based	LLDP-MED, RADIUS, 802.1X

Performance-at-a-Glance

Model Name	Packet buffer	ACLs	MAC address table VLANs Multicast Group	Fabric	Static Routes IP interfaces
GS724T GS748T	2Mb	100 shared ACLs (MAC, IP4 and IPv6)	16K MAC 256 VLANs 512 Multicast Groups	all models line-rate	32 static routes IPv4



Features and Benefits

Hardware Features	
Dedicated SFP Fiber Uplinks	Dedicated SFP ports provides fiber uplinks without sacrificing any downlink Gigabit port. Up to 4 SFP ports provide not only redundant uplinks, but can also build dual redundancy by a trunked uplink with link aggregation and failover, the dual-redundancy, a powerful design for the network virtualization
Fanless Design (GS724T)	Quiet operation makes these switches ideal solution for business environ- ments which favor no noise from networking gears such as libraries, class rooms, offices and etc.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for onging operational cost savings
Software Features	
Dynamic VLAN Assignment	IP phones and PCs can authenticate on the same port but under different VLAN assignment policies. Users are free to move around and enjoy the same level of network access regardless of their physical location in the network
Static Routing	A simple way to provide segmentation of the network with internal routing through the switch - reserving the router for external traffic routing only, making the entire network more efficient
Comprehensive IPv6 Support for Management, ACL and QoS	Build current network with future in mind. Ensure investment protection and a smooth migration to IPv6-based network without switch replacement
IGMP Snooping and MLD Snooping	Facilitate fast receiver joins and leaves for multicast streams. Save cost and improve network efficiency by ensuring multicast traffic only reaches designated receivers without the need of an extra multicast router.
Robust Security Features: • 802.1x authentication • DHCP Snooping • Port-based security by locked MAC • ACL filtering to permit or deny traffic based on MAC and IP addresses	Build a secured, converged network with all types of traffic by preventing external attacks and blocking malware while allowing secure access for authorized users
Auto Voice and Auto Video	Automatic Voice over IP prioritization with Auto-VoIP simplifies most complex multi-vendor IP telephones deployments either based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address; providing the best class of service to VoIP streams (both data and signaling) over other ordinary traffic by classifying traffic, and enabling correct egress queue configuration. When deployed IP phones are LLDP-MED compliant, the Voice VLAN will use LLDP-MED to pass on the VLAN ID, 802.1P priority and DSCP values to the IP phones, accelerating convergent deployments
Comprehensive QoS Features: • Port-based or 802.1p-based prioritization • Layer 3-based (DSCP) prioritization • Port-based 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

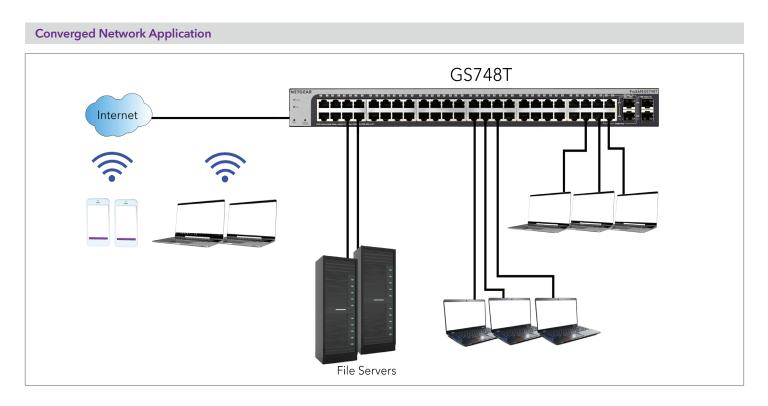




Software Features (continued)	
Protected Ports	Ensure no exchange of unicast, broadcast, or multicast traffic between the protected ports on the switch, therefore, improve the security of your converged network where your sensitive phone conversation can stay private and your surveillance video clips 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



Example Application



Why is the NETGEAR latest generation of Gigabit Smart switch the right choice for SMBs?

NETGEAR Gigabit Smart switches offer the best return on your investment:

- Well-staged for future network upgrade with Gigabit to desktop and network virtualization
- Cost-effectively bring intelligence to the edge of the network with traffic management features from the Smart switches
- Improved usability for easier and smoother deployment of voice, video and WLAN on the same converged platform
- Limited lifetime* warranty and 1-year free advanced Tech support for peace-of-mind



Technical Specifications	GS724Tv4	GS748Tv5	
Interfaces	24 10/100/1000 Mbps auto-sensing Gigabit-Ethernet switching ports, and two dedicated 1000M SFP fiber ports	48 10/100/1000 Mbps auto-sensing Gigabit-Ethernet switching ports, and two dedicated 1000Mbps SFP fiber ports, and two combo 1000Mbps SFP fiber ports	
Performance Specification			
Forwarding modes	Store-and		
Bandwidth	52 Gbps	100 Gbps	
Priority queues	8	8	
Priority queuing	Weighted Rour	nd Robin (WRR)	
MAC Address database size	16k media access cor	ntrol (MAC) addresses	
Addressing	48-bit MA	C address	
Multicast groups	51	2	
Number of static routes	3	2	
Number of routed VLANs	1	5	
Number of ARP Cache entries	51	2	
Number of DHCP snooping bindings	8K		
Number of DHCP static entries	1024		
ACL	100 shared for MA	C, IP and IPv6 ACLs	
Jumbo frame support	up to 9K packet size		
Acoustic noise (ANSI-S10.12)	0 dBA	37.2 dBA	
Mean Time Between Failures (MTBF)	567,680 hours	390,728 hours	
L2 Services - VLANs			
IEEE 802.1Q VLAN Tagging	Ye	es	
Protocol based VLANs	Ye	es .	
MAC based VLANs	Ye	es	
Voice VLAN	Based on phones OUI bytes (inter or protocols (SIP,	rnal database, or user-maintained)	
VOICE VENT	or protocols (Sir,	H323 and SCCP)	
Protocol-based VLAN	Ye		
	•		
Protocol-based VLAN	•	es	
Protocol-based VLAN Network Security	Ye	es es	
Protocol-based VLAN Network Security IEEE 802.1x	Ye Ye	es es	
Protocol-based VLAN Network Security IEEE 802.1x Guest VLAN	Ye Ye	es es es	
Protocol-based VLAN Network Security IEEE 802.1x Guest VLAN RADIUS based VLAN assignment via .1x	Ye Ye Ye	es es es es	
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Protocol-based VLAN Network Security IEEE 802.1x Guest VLAN RADIUS based VLAN assignment via .1x MAC-based .1x RADIUS Accounting Network Storm Protection, DoS	Ye Ye Ye Ye Ye Ye	es es es es es es	



L2 Services - Availability	GS724Tv4 GS748Tv5
IEEE 802.3ad - LAGs	Yes
LACP	Yes (26 LAGS with max. of 8 members in each LAG)
Broadcast Storm Control	Yes
IEEE 802.3x (Full Duplex and flow control)	Yes
IEEE 802.1D Spanning Tree Protocol	Yes
IEEE 802.1w Rapid Spanning Tree	Yes
IEEE 802.1s Multiple Spanning Tree	Yes
L2 Services - Multicast Filtering	
IGMP Snooping (v1, v2 and v3)	Yes
MLD Snooping Support (v1 and v2)	Yes
IGMP Snooping Queries	Yes
Block Unknown Multicast	Yes
Multicast VLAN Registration	Yes
L2 Services - Multicast Filtering	
IGMP Snooping (v1, v2 and v3)	Yes
MLD Snooping Support (v1 and v2)	Yes
IGMP Snooping Queries	Yes
Block Unknown Multicast	Yes
Multicast VLAN Registration	Yes
L3 Services - DHCP	
DHCP Client	Yes
DHCP Snooping	Yes
L3 Services - IPv4 Routing	
Static Routing	Yes
VLAN Routing	Yes
IP Source Guard	Yes
Network Monitoring and Discovery Services	
802.1ab LLDP	Yes
SNMP	v1, v2c, v3
RMON 1,2,3,9	Yes
Network Traffic	
Access Control Lists (ACLs)	L2/L3/L4
IP-based ACLs (IPv4 and IPv6)	Yes
MAC-based ACL	Yes
TCP/UDP-based ACL	Yes
MAC lockdown	Yes
MAC lockdown by the number of MACs	Yes
IEEE 802.1x Radius Port Access Authentication	Yes



Network Traffic	GS724Tv4	GS748Tv5
Port-based security by locked MAC addresses	`	l'es
Dynamic VLAN Assignment		l'es
Dynamic ARP inspection	`	l'es
Quality of Service (QoS)		
Access Lists	`	l'es
L2 MAC, L3 IP and L4 Port ACLs	· ·	l'es
Egress rate limiting	· ·	l'es
Support for IPv6 fields	· ·	l'es
DiffServ QoS	`	l'es
IEEE 802.1p COS	· ·	l'es
Dst MAC and IP	`	res es
IPv4 and v6 DSCP	· ·	l'es
IPv4 and v6 TOS	· ·	l'es
WRR (Weighted Round Robin)		l'es
Strict Priority Queue Technology	· ·	l'es
Auto-VoIP		and SCCP) or on OUI bytes (default in the phone source MAC address
Auto Video	•	' es
Port Mirroring	· ·	l'es
IEEE Network Protocols		

IEEE Network Protocols

- IEEE 802.3 Ethernet
- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-T
- IEEE 802.3ab 1000BASE-T
- IEEE 802.1Q VLAN Tagging
- $\bullet \ \mathsf{IEEE} \ 802.3x \ \mathsf{Full-Duplex} \ \mathsf{Flow} \ \mathsf{Control}$
- IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX
- IEEE 802.3ae 10-Gigabit Ethernet
- IEEE 802.3ad Trunking (LACP)

- IIEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)
- IEEE 802.1p Class of Service
- IEEE 802.1D Spanning Tree (STP)
- IEEE 802.1s Multiple Spanning Tree (MSTP)
- IEEE 802.1w Rapid Spanning Tree (RSTP)
- IEEE 802.1x Radius network access control

Management	
Password Management	Yes
Configurable Management VLAN	Yes
Admin Access Control via Radius and TACACS+	Yes
Web-based Graphical User Interface (GUI)	Yes
IPv6 Management	Yes
Dual Software (firmware) Image	Yes
Dual Configuration File	Yes



Management	GS724Tv4	GS748Tv5	
SNTP Client over UDP Port 123		Yes	
SNMP v1/v2C		Yes	
		res Yes	
SNMP v3 with Multiple IP Addresses			
RMON 1,2,3,9	Yes		
Port Mirroring	Yes		
Many to One Port Mirroring		Yes	
Cable Test Utility		Yes	
SSL/HTTPS and TLS v1.0 for Web-based access		Yes	
File Transfers (uploads, downloads)	TFTF	P/HTTP	
HTTP Download (firmware)		Yes	
Syslog (RFC 3164)		Yes	
LEDs			
Per Port	Speed, Link, Activity		
Per Device	Per Device Power and Fan (GS748T only)		
Physical Specifications			
Weight (kg)	2.74 kg	3.46 kg	
Dimensions (WxDxH) mm	440 x 204 x 43 mm	440 x 257 x 43 mm	
Power Consumption (when all ports used, line-rate traffic and max PoE if applicable)			
Worst case, all ports used, line-rate traffic	17.4W	41.1W	
Environmental Specifications			
Operating			
Operating Temperature	32° to 122°	°F (0° to 50°C)	
Humidity	90% maximum relative humidity, non-condensing		
Altitude	10,000 ft (3,000 m) maximum		
Storage			
Storage Temperature	- 4° to 158°F (-20° to 70°C)		
Humidity (relative)	(relative) 95% maximum relative humidity, non-condensing		
Altitude	0,000 ft (3,000 m) maximum		
Electromagnetic Emissions and Immunity			
	CE mark,	commercial	

CE mark, commercial FCC Part 15 Class A, VCCI Class A Class A EN 55022 (CISPR 22) Class A

> Class A RCM EN 50082-1 EN 55024

> > CCC

Certifications



Certifications CE mark, commercial (CSA 22.2 #950). DUL listed (UL 1950)/cUL IEC 950/EN 60950 Warranty and Support Hardware Limited Warranty Limited Lifetime* Lifetime 24x7 online Technical Support* Limited Lifetime* Lifetime Next-Business-Day (NBD) Replacement Limited Lifetime* ProSUPPORT On Call 24x7** PMB0311 (1 yr) PMB0311 (1 yr) PMB0311 (1 yr) PMB0311 (1 yr) PMB0331 (3 yr) PMB0351 (5 yr) Package Contents Symbox	Safety	GS724Tv4	GS748Tv5		
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GS724TAV-20000S Ethernet Audio/Video (EAV) software license for GS724T-400 GS748TAV-20000S Ethernet Audio/Video (EAV) software license for GS748T-500 AGM731F 1000Base-SX SFP GBIC (Multimode) AGM732F 1000Base-LX SFP GBIC (Single mode) AGM734-10000S SFP Transceiver 1000BASE-T Copper RJ45 GBIC	GS748T-500PRS	С	hina		
GS748TAV-20000S AGM731F 1000Base-SX SFP GBIC (Multimode) AGM732F 1000Base-LX SFP GBIC (Single mode) AGM734-10000S SFP Transceiver 1000BASE-T Copper RJ45 GBIC	Optional Modules, Software License and Accessories				
AGM731F 1000Base-SX SFP GBIC (Multimode) AGM732F 1000Base-LX SFP GBIC (Single mode) AGM734-10000S SFP Transceiver 1000BASE-T Copper RJ45 GBIC	GS724TAV-20000S	Ethernet Audio/Video (EAV) s	software license for GS724T-400		
AGM732F 1000Base-LX SFP GBIC (Single mode) AGM734-10000S SFP Transceiver 1000BASE-T Copper RJ45 GBIC	GS748TAV-20000S	Ethernet Audio/Video (EAV) software license for GS748T-500			
AGM734-10000S SFP Transceiver 1000BASE-T Copper RJ45 GBIC	AGM731F	1000Base-SX SFF	GBIC (Multimode)		
	AGM732F	1000Base-LX SFP GBIC (Single mode)			
AFM735-10000S (GS748T only, for combo port only) 100Base-FX SFP LC GBIC	AGM734-10000S	SFP Transceiver 1000BASE-T Copper RJ45 GBIC			
	AFM735-10000S (GS748T only, for combo port only)	100Base-F>	(SFP LC GBIC		

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