

Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch



Product Name: Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch

Manufacturer: Netgear

Model Number: GS724T-400EUS

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The Netgear GS724T-400EUS 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 reliability and improved network efficiency on top of operational cost savings and ease of management.

Netgear GS724T-400EUS Key Features

- PoE-capable on all Ports of the Switch
- IEEE 802.3at PoE Plus Ports
- Dedicated SFP Fiber Uplinks
- Dynamic VLAN Assignment
- Static Routing
- Comprehensive IPv6 Support for Management, ACL and QoS
- Build current network with future in mind
- Robust Security Features
- Auto Voice and Auto Video
- Comprehensive QoS Features
- DHCP Snooping
- Dual Firmware Images and Configuration Files
- PoE Timer
- Protected Ports

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

Netgear GS724T-400EUS Technical Specification

Hardware Features

- Dedicated SFP Fiber Uplinks
- Fanless Design
- Energy Efficient Ethernet (IEEE802.3az)

Software Features

- Dynamic VLAN Assignment
- Static Routing
- Comprehensive IPv6 Support for Management, ACL and QoS
- IGMP Snooping and MLD Snooping
- 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
- Auto Voice and Auto Video
- Comprehensive QoS Features: - Port-based or 802.1p-based prioritisation - Layer 3-based (DSCP) prioritisation - Port-based ingress and egress rate limiting
- DHCP Snooping
- Dual Firmware Images and Configuration Files
- Protected Ports
- Dynamic ARP Inspection
- Multicast VLAN Registration
- EAV (Ethernet Audio/Video Bridging) Support

Product Specifications

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• Interfaces: 24 10/100/1000 Mbps auto-sensing Gigabit Ethernet switching ports, and two dedicated 1000M SFP fiber ports.

Performance Specifications

- Forwarding modes: Store-and-forward
- Bandwidth: 52 Gbps
- Priority queues: 8
- Priority queuing: Weighted Round Robin (WRR)
- MAC Address database size: 16k media access control (MAC) addresses
- Addressing: 48-bit MAC address
- Multicast groups: 512
- Number of static routes: 32
- Number of routed VLANs: 15
- Number of ARP Cache entries: 512
- Number of DHCP snooping bindings: 8K
- Number of DHCP static entries: 1024
- ACL: 100 shared for MAC, IP and IPv6 ACLs
- Jumbo frame support: up to 9K packet size
- Acoustic noise (ANSI-S10.12): 0 dBA
- Mean Time Between Failures (MTBF): 567,680 hours

L2 Services - VLANS

- IEEE 802.1Q VLAN Tagging: Yes
- Protocol based VLANs: Yes
- MAC based VLANs: Yes
- Voice VLAN: Based on phones OUI bytes (internal database, or user-maintained) or protocols (SIP, H323 and SCCP)
- Protocol-based VLAN: Yes

Network Security

- IEEE 802.1x
- Guest VLAN
- RADIUS based VLAN assignment via .1x
- MAC-based .1x
- RADIUS Accounting
- Network Storm Protection, DoS
- Broadcast, Unicast, Multicast DoS Protection
- DoS Attacks
- Dynamic ARP inspection

L2 Services - Availability

- IEEE 802.3ad - LAGs
- LACP (26 LAGS with max. of 8 members in each LAG)
- Broadcast Storm Control
- IEEE 802.3x (Full Duplex and flow control)
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Multiple Spanning Tree

L2 Services - Multicast Filtering

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- IGMP Snooping (v1, v2 and v3)
- MLD Snooping Support (v1 and v2)
- IGMP Snooping Queries
- Block Unknown Multicast
- Multicast VLAN Registration

L3 Services - DHCP

- DHCP Client
- DHCP Snooping

L3 Services - IPV4 Routing

- Static Routing
- VLAN Routing
- IP Source Guard

Network Monitoring and Discovery Services

- 802.1ab LLDP
- SNMP: v1, v2c, v3
- RMON 1,2,3,9

Network Traffic

- Access Control Lists (ACLs): L2 / L3 / L4
- IP-based ACLs (IPv4 and IPv6)
- MAC-based ACL
- TCP/UDP-based ACL
- MAC lockdown
- MAC lockdown by the number of MACs
- IEEE 802.1x Radius Port Access Authentication
- Port-based security by locked MAC addresses
- Dynamic VLAN Assignment
- Dynamic ARP inspection

Quality of Service (QoS)

- Access Lists
- L2 MAC, L3 IP and L4 Port ACLs
- Ingress rate limiting
- Egress rate limiting
- Support for IPv6 fields
- DiffServ QoS
- IEEE 802.1p COS
- Dst MAC and IP
- IPv4 and v6 DSCP
- IPv4 and v6 TOS
- WRR (Weighted Round Robin)
- Strict Priority Queue Technology
- Timing and Synchronisation for Time Sensitive Applications (IEEE802.1AS)
- Stream Reservation Protocol (SRP) (IEEE802.1Qat)
- Forwarding and Queuing for Time Sensitive Streams (IEEE802.1Qav): up to 24 ports simultaneously

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- Audio Video Bridging Systems (IEEE802.1BA)
- Auto-VoIP: Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address
- Auto Video
- Port Mirroring

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
- IEEE 802.3x Full-Duplex Flow Control
- IEEE 802.1Qav1
- IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX
- IEEE 802.3ae 10-Gigabit Ethernet
- IEEE 802.3ad Trunking (LACP)
- IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)
- IEEE 802.1p Class of Service
- IEEE 802.1Qat1
- 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
- IEEE 802.1BA1
- IEEE 802.1AS1

Management

- Password Management
- Configurable Management VLAN
- Admin Access Control via Radius and TACACS+
- Web-based Graphical User Interface (GUI)
- Smart Control Center (SCC) for Multi-switch Management
- IPv6 Management
- Dual Software (firmware) Image
- Dual Configuration File
- SNTP Client over UDP Port 123
- SNMP v1/v2C
- SNMP v3 with Multiple IP Addresses
- RMON 1,2,3,9
- Port Mirroring
- Many to One Port Mirroring
- Cable Test Utility
- SSL/HTTPS and TLS v1.0 for Web-based access
- File Transfers (uploads, downloads): TFTP / HTTP
- HTTP Download (firmware)
- Syslog (RFC 3164)

LEDs

- Per Port: Speed, Link, Activity
- Per Device: Power and Fan (GS748T only)

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Physical Specifications

Weight: 2.74kg

Dimensions (WxDxH): 440 x 204 x 43mm

Power Consumption

WorstCase, all ports used, line-rate traffic: 17.4W

Environmental Specifications

Operating Temperature: 32°C to 122°F (0°C to 50°C)

Operating Humidity: 90% maximum relative humidity, non-condensing

Operating Altitude: 10,000ft (3,000m) maximum

Storage Temperature: -4°C to 158°F (-20°C to 70°C)

Storage Humidity: 95% maximum relative humidity, non-condensing

Storage Altitude: 10,000ft (3,000m) maximum

Electromagnetic Emissions and Immunity

Certifications: - CE mark, commercial - FCC Part 15 Class A, VCCI Class A - Class A EN 55022 (CISPR 22) Class A - Class A C-Tick - EN 50082-1 - EN 55024 - CCC

Safety

Certifications: - CE mark, commercial - CSA certified (CSA 22.2 #950) - UL listed (UL 1950)/cUL IEC 950/EN 60950

Price: £200.70