Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch

Product Name: Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch
Manufacturer: Netgear
Model Number: GS724T-400EUS

Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch
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 realiability and improved network efficiency on top of operational cost savings and ease of management.
 Netgear GS724T-400EUS Key Features

ï¿½ PoE-capable on all Ports of the Switch
ï¿½ IEEE 802.3at PoE Plus Ports
ï¿½ Dedicated SFP Fiber Uplinks
ï¿½ Dynamic VLAN Assignment
ï¿½ Static Routing
ï¿½ Comprehensive IPv6 Support for Management, ACL and QoS
ï¿½ Build current network with future in mind
ï¿½ Robust Security Features
ï¿½ Auto Voice and Auto Video
ï¿½ Comprehensive QoS Features
ï¿½ DHCP Snooping
ï¿½ Dual Firmware Images and Configuration Files
ï¿½ PoE Timer
ï¿½ 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

ï¿½ Dedicated SFP Fiber Uplinks
ï¿½ Fanless Design
ï¿½ Energy Efficient Ethernet (IEEE802.3az)

Software Features

ï¿½ Dynamic VLAN Assignment
ï¿½ Static Routing
ï¿½ Comprehensive IPv6 Support for Management, ACL and QoS
ï¿½ IGMP Snooping and MLD Snooping
ï¿½ 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
ï¿½ Auto Voice and Auto Video
ï¿½ Comprehensive QoS Features: - Port-based or 802.1p-based prioritisation - Layer 3-based (DSCP) prioritisation - Port-based ingress and egress rate limiting
ï¿½ DHCP Snooping
ï¿½ Dual Firmware Images and Configuration Files
ï¿½ Protected Ports
ï¿½ Dynamic ARP Inspection
ï¿½ Multicast VLAN Registration
ï¿½ EAV (Ethernet Audio/Video Bridging) Support

Product Specifications

Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch

ï¿½ Interfaces: 24 10/100/1000 Mbps auto-sensing Gigabit Ethernet switching ports, and two dedicated 1000M SFP fiber ports.

Performance Specifications

ï¿½ Forwarding modes: Store-and-forward
ï¿½ Bandwidth: 52 Gbps
ï¿½ Priority queues: 8
ï¿½ Priority queuing: Weighted Round Robin (WRR)
ï¿½ MAC Address database size: 16k media access control (MAC) addresses
ï¿½ Addressing: 48-bit MAC address
ï¿½ Multicast groups: 512
ï¿½ Number of static routes: 32
ï¿½ Number of routed VLANs: 15
ï¿½ Number of ARP Cache entries: 512
ï¿½ Number of DHCP snooping bindings: 8K
ï¿½ Number of DHCP static entries: 1024
ï¿½ ACL: 100 shared for MAC, IP and IPv6 ACLs
ï¿½ Jumbo frame support: up to 9K packet size
ï¿½ Acoustic noise (ANSI-S10.12): 0 dBA
ï¿½ Mean Time Between Failures (MTBF): 567,680 hours

L2 Services - VLANS

ï¿½ IEEE 802.1Q VLAN Tagging: Yes
ï¿½ Protocol based VLANs: Yes
ï¿½ MAC based VLANs: Yes
ï¿½ Voice VLAN: Based on phones OUI bytes (internal database, or user-maintained) or protocols (SIP, H323 and SCCP)
ï¿½ Protocol-based VLAN: Yes

Network Security

ï¿½ IEEE 802.1x
ï¿½ Guest VLAN
ï¿½ RADIUS based VLAN assignment via .1x
ï¿½ MAC-based .1x
ï¿½ RADIUS Accounting
ï¿½ Network Storm Protection, DoS
ï¿½ Broadcast, Unicast, Multicast DoS Protection
ï¿½ DoS Attacks
ï¿½ Dynamic ARP inspection

L2 Services - Availability

ï¿½ IEEE 802.3ad - LAGs
ï¿½ LACP (26 LAGS with max. of 8 members in each LAG)
ï¿½ Broadcast Storm Control
ï¿½ IEEE 802.3x (Full Duplex and flow control)
ï¿½ IEEE 802.1D Spanning Tree Protocol
ï¿½ IEEE 802.1w Rapid Spanning Tree
ï¿½ IEEE 802.1s Multiple Spanning Tree

L2 Services - Multicast Filtering

Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch

ï¿½ IGMP Snooping (v1, v2 and v3)
ï¿½ MLD Snooping Support (v1 and v2)
ï¿½ IGMP Snooping Queries
ï¿½ Block Unknown Multicast
ï¿½ Multicast VLAN Registration

L3 Services - DHCP

ï¿½ DHCP Client
ï¿½ DHCP Snooping

L3 Services - IPV4 Routing

ï¿½ Static Routing
ï¿½ VLAN Routing
ï¿½ IP Source Guard

Network Monitoring and Discovery Services

ï¿½ 802.1ab LLDP
ï¿½ SNMP: v1, v2c, v3
ï¿½ RMON 1,2,3,9

Network Traffic

ï¿½ Access Control Lists (ACLs): L2 / L3 / L4
ï¿½ IP-based ACLs (IPv4 and IPv6)
ï¿½ MAC-based ACL
ï¿½ TCP/UDP-based ACL
ï¿½ MAC lockdown
ï¿½ MAC lockdown by the number of MACs
ï¿½ IEEE 802.1x Radius Port Access Authentication
ï¿½ Port-based security by locked MAC addresses
ï¿½ Dynamic VLAN Assignment
ï¿½ Dynamic ARP inspection

Quality of Service (QOS)

ï¿½ Access Lists
ï¿½ L2 MAC, L3 IP and L4 Port ACLs
ï¿½ Ingress rate limiting
ï¿½ Egress rate limiting
ï¿½ Support for IPv6 fields
ï¿½ DiffServ QoS
ï¿½ IEEE 802.1p COS
ï¿½ Dst MAC and IP
ï¿½ IPv4 and v6 DSCP
ï¿½ IPv4 and v6 TOS
ï¿½ WRR (Weighted Round Robin)
ï¿½ Strict Priority Queue Technology
ï¿½ Timing and Synchronisation for Time Sensitive Applications (IEEE802.1AS)
ï¿½ Stream Reservation Protocol (SRP) (IEEE802.1Qat)
ï¿½ Forwarding and Queuing for Time Sensitive Streams (IEEE802.1Qav): up to 24 ports
simultaneously

Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch

ï¿½ Audio Video Bridging Systems (IEEE802.1BA)
ï¿½ 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
ï¿½ Auto Video
ï¿½ Port Mirroring

IEEE Network Protocols

ï¿½ IEEE 802.3 Ethernet
ï¿½ IEEE 802.3i 10BASE-T
ï¿½ IEEE 802.3u 100BASE-T
ï¿½ IEEE 802.3ab 1000BASE-T
ï¿½ IEEE 802.1Q VLAN Tagging
ï¿½ IEEE 802.3x Full-Duplex Flow Control
ï¿½ IEEE 802.1Qav1
ï¿½ IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX
ï¿½ IEEE 802.3ae 10-Gigabit Ethernet
ï¿½ IEEE 802.3ad Trunking (LACP)
ï¿½ IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)
ï¿½ IEEE 802.1p Class of Service
ï¿½ IEEE 802.1Qat1
ï¿½ IEEE 802.1D Spanning Tree (STP)
ï¿½ IEEE 802.1s Multiple Spanning Tree (MSTP)
ï¿½ IEEE 802.1w Rapid Spanning Tree (RSTP)
ï¿½ IEEE 802.1x Radius network access control
ï¿½ IEEE 802.1BA1
ï¿½ IEEE 802.1AS1

Management

ï¿½ Password Management
ï¿½ Configurable Management VLAN
ï¿½ Admin Access Control via Radius and TACACS+
ï¿½ Web-based Graphical User Interface (GUI)
ï¿½ Smart Control Center (SCC) for Multi-switch Management
ï¿½ IPv6 Management
ï¿½ Dual Software (firmware) Image
ï¿½ Dual Configuration File
ï¿½ SNTP Client over UDP Port 123
ï¿½ SNMP v1/v2C
ï¿½ SNMP v3 with Multiple IP Addresses
ï¿½ RMON 1,2,3,9
ï¿½ Port Mirroring
ï¿½ Many to One Port Mirroring
ï¿½ Cable Test Utility
ï¿½ SSL/HTTPS and TLS v1.0 for Web-based access
ï¿½ File Transfers (uploads, downloads): TFTP / HTTP
ï¿½ HTTP Download (firmware)
ï¿½ Syslog (RFC 3164)

LEDs

ï¿½ Per Port: Speed, Link, Activity
ï¿½ Per Device: Power and Fan (GS748T only)

Netgear ProSafe GS724Tv4 24 Port Gigabit Smart Switch

Physical Specifications

ï¿½ Weight: 2.74kg
ï¿½ Dimensions (WxDxH): 440 x 204 x 43mm

Power Consumption

ï¿½ WorstCase, all ports used, line-rate traffic: 17.4W

Environmental Specifications

ï¿½ Operating Temperature: 32° to 122°F (0° to 50°C)
ï¿½ Operating Humidity: 90% maximum relative humidity, non-condensing
ï¿½ Operating Altitude: 10,000ft (3,000m) maximum
ï¿½ Storage Temperature: –4° to 158°F (–20° to 70°C)
ï¿½ Storage Humidity: 95% maximum relative humidity, non-condensing
ï¿½ Storage Altitude: 10,000ft (3,000m) maximum

Electromagnetic Emissions and Immunity

ï¿½ 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

ï¿½ Certifications: - CE mark, commercial - CSA certified (CSA 22.2 #950) - UL listed (UL
1950)/cUL IEC 950/EN 60950

Price: 232.49EUR