

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

� PoE-capable on all Ports of the Switch

� IEEE 802.3at PoE Plus Ports

� Dedicated SFP Fiber Uplinks

� Dynamic VLAN Assignment

ï¿1/2 Static Routing

าั¿½ Comprehensive IPv6 Support for Management, ACL and QoS

121/2 Build current network with future in mind

� Robust Security Features

ï¿1/2 Auto Voice and Auto Video

� Comprehensive QoS Features

ï¿⅓ DHCP Snooping

าั¿½ 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

ï¿⅓ Fanless Design

� Energy Efficient Ethernet (IEEE802.3az)

### Software Features

ï¿1/2 Dynamic VLAN Assignment

ï¿⅓ Static Routing

12/2 Comprehensive IPv6 Support for Management, ACL and QoS

17.1/2 IGMP Snooping and MLD Snooping

آذاً½ 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¿1/2 Auto Voice and Auto Video

าั¿½ Comprehensive QoS Features: - Port-based or 802.1p-based prioritisation - Layer 3-based (DSCP) prioritisation - Port-based ingress and egress rate limiting

� DHCP Snooping

า๊¿½ Dual Firmware Images and Configuration Files

� Protected Ports

� Dynamic ARP Inspection

ï¿1/2 Multicast VLAN Registration

าั¿½ EAV (Ethernet Audio/Video Bridging) Support

**Product Specifications** 



าั¿½ 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
- ï¿1/2 Bandwidth: 52 Gbps
- � Priority queues: 8
- า๊¿½ Priority queuing: Weighted Round Robin (WRR)
- آذًا MAC Address database size: 16k media access control (MAC) addresses
- ï¿1/2 Addressing: 48-bit MAC address
- ï¿1/2 Multicast groups: 512
- � Number of static routes: 32
- � Number of routed VLANs: 15
- ï¿1/2 Number of ARP Cache entries: 512
- าั¿1/2 Number of DHCP snooping bindings: 8K
- � Number of DHCP static entries: 1024
- آذً1/2 ACL: 100 shared for MAC, IP and IPv6 ACLs
- آزٰ Jumbo frame support: up to 9K packet size
- ï¿1/2 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
- าั¿½ Voice VLAN: Based on phones OUI bytes (internal database, or user-maintained) or protocols
- (SIP, H323 and SCCP)
- � Protocol-based VLAN: Yes

## **Network Security**

- ï¿⅓ IEEE 802.1x
- ï¿⅓ Guest VLAN
- ï¿⅓ RADIUS based VLAN assignment via .1x
- ï¿1/2 MAC-based .1x
- ï¿1/2 RADIUS Accounting
- � Network Storm Protection, DoS
- آذِر Broadcast, Unicast, Multicast DoS Protection
- ï¿⅓ DoS Attacks
- � Dynamic ARP inspection

#### L2 Services - Availability

- آزٰ½ IEEE 802.3ad LAGs
- � LACP (26 LAGS with max. of 8 members in each LAG)
- � Broadcast Storm Control
- i¿1/2 IEEE 802.3x (Full Duplex and flow control)
- � IEEE 802.1D Spanning Tree Protocol
- آذِ 1/2 IEEE 802.1w Rapid Spanning Tree
- ï¿1/2 IEEE 802.1s Multiple Spanning Tree

## L2 Services - Multicast Filtering



ï¿1/2 IGMP Snooping (v1, v2 and v3)

� MLD Snooping Support (v1 and v2)

ï¿1/2 IGMP Snooping Queries

ï¿1/2 Block Unknown Multicast

� Multicast VLAN Registration

L3 Services - DHCP

� DHCP Client

ï¿⅓ DHCP Snooping

L3 Services - IPV4 Routing

ï¿1/2 Static Routing

� VLAN Routing

ï¿1/2 IP Source Guard

### Network Monitoring and Discovery Services

� 802.1ab LLDP

ï¿⅓ SNMP: v1, v2c, v3

ï¿1/2 RMON 1,2,3,9

#### **Network Traffic**

ï¿1/2 Access Control Lists (ACLs): L2 / L3 / L4

ï¿1/2 IP-based ACLs (IPv4 and IPv6)

ï¿1/2 MAC-based ACL

� TCP/UDP-based ACL

ï¿⅓ MAC lockdown

� MAC lockdown by the number of MACs

า๊¿½ IEEE 802.1x Radius Port Access Authentication

� Port-based security by locked MAC addresses

ï¿⅓ Dynamic VLAN Assignment

� Dynamic ARP inspection

### Quality of Service (QOS)

ï¿⅓ Access Lists

ï¿1/2 L2 MAC, L3 IP and L4 Port ACLs

ï¿⅓ Ingress rate limiting

ï¿⅓ Egress rate limiting

� Support for IPv6 fields

ï¿⅓ DiffServ QoS

� IEEE 802.1p COS

ï¿1/2 Dst MAC and IP

� IPv4 and v6 DSCP

� IPv4 and v6 TOS

� WRR (Weighted Round Robin)

17.1/2 Strict Priority Queue Technology

آذِيًّ Timing and Synchronisation for Time Sensitive Applications (IEEE802.1AS)

ī¿1/2 Stream Reservation Protocol (SRP) (IEEE802.1Qat)

ī¿½ Forwarding and Queuing for Time Sensitive Streams (IEEE802.1Qav): up to 24 ports simultaneously



i¿1/2 Audio Video Bridging Systems (IEEE802.1BA)

T¿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

� Auto Video

آز½ Port Mirroring

### **IEEE Network Protocols**

ï¿1/2 IEEE 802.3 Ethernet

� IEEE 802.3i 10BASE-T

ï¿⅓ IEEE 802.3u 100BASE-T

ï¿1/2 IEEE 802.3ab 1000BASE-T

ï¿1/2 IEEE 802.1Q VLAN Tagging

ï¿1/2 IEEE 802.3x Full-Duplex Flow Control

� IEEE 802.1Qav1

آذِ1/2 IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX

� IEEE 802.3ae 10-Gigabit Ethernet

� IEEE 802.3ad Trunking (LACP)

آذِلًا IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)

� IEEE 802.1p Class of Service

� IEEE 802.1Qat1

آذِر IEEE 802.1D Spanning Tree (STP)

i¿1/2 IEEE 802.1s Multiple Spanning Tree (MSTP)

آز½ IEEE 802.1w Rapid Spanning Tree (RSTP)

آذِ1/2 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+
- าั¿1/2 Web-based Graphical User Interface (GUI)
- ī¿1/2 Smart Control Center (SCC) for Multi-switch Management
- ï¿1/2 IPv6 Management
- ï¿1/2 Dual Software (firmware) Image
- � Dual Configuration File
- ï¿⅓ SNTP Client over UDP Port 123
- ï¿⅓ SNMP v1/v2C
- ï¿1/2 SNMP v3 with Multiple IP Addresses
- � RMON 1,2,3,9
- � Port Mirroring
- ï¿1/2 Many to One Port Mirroring
- � Cable Test Utility
- � SSL/HTTPS and TLS v1.0 for Web-based access
- آز 1/2 File Transfers (uploads, downloads): TFTP / HTTP
- تزارط HTTP Download (firmware)
- ï¿1/2 Syslog (RFC 3164)

## LEDs

تزير Per Port: Speed, Link, Activity

i¿½ Per Device: Power and Fan (GS748T only)



### **Physical Specifications**

� Weight: 2.74kg

ï¿1/2 Dimensions (WxDxH): 440 x 204 x 43mm

#### **Power Consumption**

า๊¿1/2 WorstCase, all ports used, line-rate traffic: 17.4W

## **Environmental Specifications**

ī¿½ Operating Temperature: 32° to 122°F (0° to 50°C)

ī¿½ Operating Humidity: 90% maximum relative humidity, non-condensing

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

ī¿½ Storage Temperature: –4° to 158°F (–20° to 70°C)

រ៉េ $^{1}$ 2 Storage Humidity: 95% maximum relative humidity, non-condensing

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

### Electromagnetic Emissions and Immunity

าะไว 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

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

**Price: 228.49EUR**