GS724T
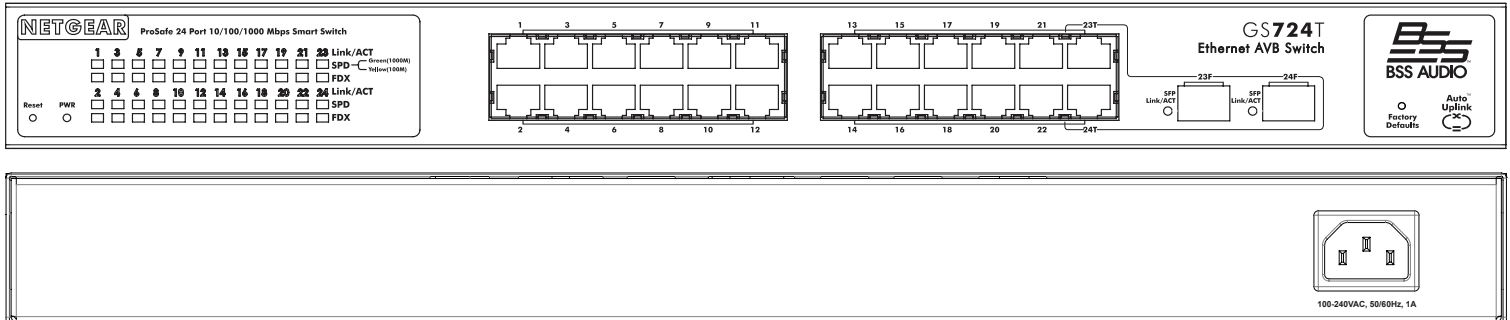# 24 Port Ethernet AVB Switch

OVERVIEW:

The BSS Audio / NETGEAR GS724T Ethernet Switch is a 24-port, Ethernet AVB enabled, fully-managed Gigabit switch.

With full support of Ethernet AVB technology, the GS724T allows audio, video, and data to be shared amongst Ethernet AVB compatible devices.

The 24 ports are each capable of accommodating 2000 Mbps of data throughput in full-duplex mode, yielding a total bandwidth of 48000 Mbps (48 Gbps). The GS724T delivers 10/100/1000 automatic speed sensing, full/half-duplex sensing, and Auto Uplink™ (MDI/MDI-X) to every port. This simplifies the combination of 10, 100, and 1000 Mbps devices.

Two hot-swappable Small Form-factor Pluggable (SFP) Gigabit Interface Converter (GBIC) slots provide optional fiber connectivity for the greater distances often encountered in large systems.

An intuitive web-browser interface offers straightforward administrative management for performance monitoring, port configuration, VLAN for traffic control, Class of Service (CoS) for traffic prioritization, port trunking for increased bandwidth, traffic filtering, and other advanced features.

Smart Control Center—a standalone utility program included on the accompanying software CD—allows automatic discovery of GS724T devices (even across subnets) and provides basic device configuration tools.

KEY FEATURES:

- 24 Port Gigabit Network Switch
- Ethernet AVB support
  - 802.1ak - Multiple Registration Protocol (MRP/MMRP)
  - 802.1AS - Timing and Synchronization for Time-Sensitive Applications in Bridged Local Area Networks (PTP)
  - 802.1Qat - Stream Reservation Protocol (SRP)
  - 802.1Qav - Forwarding and Queuing Enhancements for Time-Sensitive Streams
  - 802.1AB-REV - Station and Media Access Control Connectivity Discovery (LLDP)
- 2 Gigabit Interface Converter (GBIC) slots for optional fiber connectivity

- Smart Control Center utility program automatically discovers devices
- Administrative management via web-browser interface
  - Port configuration
  - Port monitoring
  - Port trunking
  - VLAN support
  - Class of Service (CoS)
  - Layer 2 management
    - MAC address Filter
    - Ethertype Filtering
- Universal 100-240V AC/50-60 Hz power supply
- Rack-Mount Ears (included)

GS724T 24 Port Ethernet AVB Switch

TECHNICAL SPECIFICATIONS:

Network Protocol and Standards Compatibility:

IEEE 802.3 10BASE-T Ethernet

IEEE 802.3u 100BASE-TX Fast Ethernet

IEEE 802.3ab 1000BASE-T Gigabit Ethernet

IEEE 802.3x full-duplex flow control

Interfaces:

RJ-45 connectors for 10BASE-T, 100BASE-TX, and 1000BASE-T (Auto Uplink on all ports)

Dual Personality SFP slots for fiber Gigabit Ethernet modules

Ethernet AVB Support:

802.1ak - Multiple Registration Protocol (MRP/MMRP/MVRP)

802.1AS - 802.1AS - Timing and Synchronization for Time-Sensitive Applications in Bridged Local Area Networks (PTP)

802.1Qat - Stream Reservation Protocol (SRP), Draft 5.0

802.1Qav - Forwarding and Queuing Enhancements for Time-Sensitive Streams

802.1AB-REV - Station and Media Access Control Connectivity Discovery (LLDP)

Maximum of 512 SRP Stream Reservations

Administrative Switch Management:

IEEE 802.1D Spanning Tree Protocol

RFC 1157 SNMP v1, v2c

RFC 1213 MIB II

RFC 1643 Ethernet Interface MIB

RFC1493 Bridge MIB

Private Enterprise MIB

Jumbo Frame Support (up to 9216 bytes) (NOTE: this is not supported for Ethernet AVB use)

IEEE 802.1Q Tag VLAN

Static VLAN Support

IEEE 802.1p (Class of Service)

DSCP - L3 QoS

Port-based QoS (options High/Normal)

Port Trunking - Manual as per IEEE802.3ad Link Aggregation

DHCP client function

Access Control: Trusted MAC

Broadcast storm control

Port mirroring (many-to-one)

Port setting

Web-based configuration, anywhere on the network

Password access control and Restricted IP Access List

Firmware upgradeable

Active Flow Control:

Full-duplex IEEE 802.3x pause frame flow control

Half-duplex back-pressure control

Power and Dimensions:

Mains Voltage: 100-240V AC/50-60 Hz universal input

Power Consumption: 40 W maximum

Dimensions: (H(U) x W x D): 1.7" (1U) x 17.3" x 10.25" (43mm x 440mm x 260mm)

Weight: 7.1 lbs. / 3.2 kg

Environmental Specifications:

Operating temperature: 32° to 104° F (0° to 40° C)

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

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

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

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

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

Electromagnetic Compliance:	**Safety Agency Approvals:**
CE mark, commercial	UL listed (UL 1950)/cUL
FCC Part 15 Class A	IEC 950/EN 60950
VCCI Class A	CE mark, commercial
EN 55022 (CISPR 22)	CUL 60950 (Listed)/EN 60950 (Low Voltage Directive)
EN 55024 (CISPR 24)	
C-Tick	