



AT-9724TS

Managed Layer 3 Stackable Gigabit Ethernet Switch

AT-9724TS

24 port 10/100/1000TX stackable Layer 3+ Gigabit Ethernet switch + 4 SFP Combo

Performance

The AT-9724TS is an advanced Layer 3 switch designed to meet the requirements of multimedia and bring traffic control and high performance to the edge of the network. With IP routing capabilities for investment protection and flexible management, the AT-9724TS is designed to be a cost effective solution for today's market with the ability to expand as network demands grow.

Specially designed for high-performance desktop edge connectivity, workgroup, midsized networks, campus and metro access edge, the AT-9724TS provides Layer 3 functionality to support converged services like voice and video, which are becoming more and more integrated into data networks. When stacked, up to 288 ports of Gigabit Ethernet can be achieved, providing enough performance for medium enterprises, multi-unit buildings, hospitals, schools, and colleges.

Utilizing a powerful switch fabric, the AT-9724TS passes traffic reliably and efficiently with wirespeed performance and non-blocking architecture. The integrated stacking modules pass data packets at an impressive backplane speed of 40Gbps.

Rich Feature Set

A rich set of features is incorporated into the AT-9724TS to provide full support for multimedia Layer 3 applications. All switches include advanced features to provide QoS/Cos, VLAN and Security, including 8 priority queues for 802.1p/ToS/Diffserv. Layer 3 routing features include: RIPv1/v2, OSPFv2, PIM-DM, PIM-SM, DVMRP and VRRP. Security features include MAC-address, IP-address, or TCP/UDP-based Access Control Lists; 802.1x MAC-based

authentication and 802.1x Port-based authentication.VLAN support includes port-based VLANS(up to 255 static groups per device) GARP/GVRP, and 802.1q.

Stackability

Up to 12 Switches can be stacked together for Ring mode. Users can add units to reach maximum 288 GbE ports per Ring stack. Switches are stacked together through dedicated $2\times10G$ ports with high-speed stack cables for a total of 40Gbps that provide high speed of multiple Gigabit connections, allowing the entire stack to perform as a single IP entity. Users can see the number of switches stacked together from seven-segment display on the unit's front panel.

Scalability

Each switch supports four optional SFP connectors, which allow the switched network to be extended with fiber optic cabling. In turn, the IOGbps stacking interfaces support flexibility and long-term network growth.

Management & Availability

The AT-9724TS has an integrated management agent, which provides an embedded web server, SNMP, RMON, console telnet capabilities.

The AT-9724TS supports stacking of up to 12 units in a highly resilient ring-architecture via integrated rear 10-Gbps stacking ports. Additional protection from down-time comes in the form of an optional redundant power supply, 802.3ad Link Aggregation, 802.1d Spanning Tree, 802.1w Rapid Spanning Tree and 802.1s Multiple Spanning Tree.

Key Features

Stack Up to 288 Ports

40Gbps dedicated stack ports (2 x 10Gbps ports)

88Gbps Switching Fabric, 65.5Mpps

- · Wirespeed Layer 2 to 3 filtering
- Wirespeed Layer 2 switching
- Wirespeed Layer 3 IP routing

Flexible, Modular Design

- · 4 SFP bays for fiber media
- IRU Form Factor

Advanced Performance Features

- Full QoS for multimedia applications
- Eight Priority Queues Per Port
- GVRP VLAN Support
- Supports up to 4000 VLANs
- Jumbo Frames up to 9000 bytes
- IEEE 802.1s Multiple Spanning Tree Support
- IEEE 802.3ad link aggregation (LACP)

Routing

- IEEE RIP v1/v2
- OSPF
- IGMPv1 and IGMPv2

Management

- SNMP Support
- RMON Support
- Port Mirroring

Security

- Port Security
- SSH
- SSL
- TACACS/TACACS+
- RADIUS Authentication
- Access Control Lists

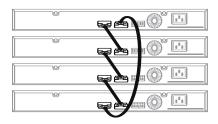
Assurance

- Redundant Power Supply Option
- Two Year Warranty
- Resilient Ring Stacking
- 802.3ad (LACP)
- 802.1s (MSTP)
- 802.1w (RSTP)

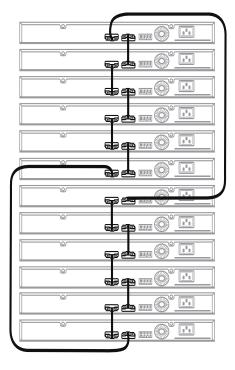
Allied Telesis www.alliedtelesis.com

AT-9724TS | Managed Layer 3 Stackable Gigabit Ethernet Switch

Small Stack Cable Configuration



Large Stack Cable Configuration



Specifications

Performance

88Gbps switching fabric, 65.5Mpps forwarding rate 14,880pps for IOMbps Ethernet 148,800pps for 100Mbps Ethernet 1,488,000pps for 1000Mbps Ethernet MAC addresses 16.000 Buffer Memory 2MB SDRAM Memory 256MB Flash Memory 16MB

VLANs

4,000 VLANs (256 Dynamic)

Auto-negotiation speed Auto-MDI/MDI-X

Trunk groups: Up to 32 groups, up to 8 ports each

L3 Host IP Table up to 3,000 entries

IP Multicast Table support 256 IP multicast table

IEEE 802.1Q support

GARP/GVRP

Number of Static VLANs supported per device

Static + dynamic = 4096 Max. dynamic VLAN = 255 Max. static VLAN = 4096

Reliability

AT-9724TS 175,283 hours

Interface Connections

10/100/1000T Shielded RJ45 SFP bays for Fiber connections

Network Management

SNMP

Web-based management RS232 console access Command Menu Interface Telnet

Physical Characteristics

Height: 4.4cm (1.7") Width: 44cm (17.3") Depth: 21.0cm (8.5")

Weight: 3.2Kg

Mounting: 19" rackmountable, hardware incl.

Standards & Compliance

IEEE 802.3 10T Ethernet

IEEE 802.3u 100TX Ethernet

IEEE 802.3ab 1000T Ethernet

IEEE 802.3z 1000X Ethernet

IEEE 802.3ad Link Aggregation

IEEE 802.1d Spanning Tree

IEEE 802.1p Class of Service, priority protocols

IEEE 802.1 Q VLAN Tagging IEEE 802.3x Flow Control

RFC 1112 IGMP Snooping vI

RFC 2236 IGMP Snooping v2

RFC 951 BootP

RFC 2131 DHCP

RFC 1350 TFTP

RFC 1757 RMON Groups 1, 2, 3 and 9

TACACS+ RADIUS RIPvI & v2 RFC 1850 OSPF VRRP

DVMRP

PIM Dense Mode

PIM Sparse Mode IGMPv2

GARP/GVRP

SNMP Standards

SNMP vI Support

SNMP v2c Support

SNMP v3 Support

RFC 1213 MIB II RFC 1493 Bridge MIB

RFC 1757 Remote Network MIB

RFC 1643 Ether-like MIB RFC2233 Interface MIB

Private MIB

Electrical/Mechanical

Power Consumption: 90W

Power Characteristics:

Voltage: 100-240V AC auto-ranging

Frequency: 50-60Hz

Environmental Specifications

Operating Temp $0^{\circ}C - 40^{\circ}C$ $(32^{\circ}F - 104^{\circ}F)$

Storage Temp -25°C — 55°C

Relative Humidity Range 5% — 95% non-condensing

Approvals UL 1950

FCC Class A CSA 22.2 No. 950 EN55022 Class A EN 60950 (TUV) EN50082-1

Country of Origin

Allied Telesis www.alliedtelesis.com

AT-9724TS | Managed Layer 3 Stackable Gigabit Ethernet Switch

Summary of Features

201

Classification based on IEEE 802.1p priority Classification based on MAC SA/DA Number of priority queues supported Classification based on ToS priority Classification based on IP destination address Classification based on TCP/UDP destination port number

Classification based on DSCP

Spanning Tree Support

IEEE 802.1D Spanning Tree compatible
IEEE 802.1w Rapid Spanning Tree support
IEEE 802.1S Multiple Spanning Tree support

IP Multicast

IGMP Snooping
IGMP v1/v2
DVMRP
PIM Sparse Mode

PIM Sparse Mode Support PIM Dense Mode Support

Configuration

Telnet Server
TFTP Client
BootP Client
DHCP Client
DHCP Relay agent
BootP Relay
DNS Relay

Management

Password Enabled Web-based Support TACACS + Authentication **RADIUS Authentication** TFTP Upgrade Command Line Interface (CLI) Traffic Segmentation Bandwidth Control (IMbps increments) Support SYSLOG Support Port Security Web GUI Traffic Monitoring Web MAC Address Browsing SNTP Support Single IP Management Port Description CPU Utilization Monitoring Dual Images Support

SNMP Trap on MAC address Notification

MIB Support

RFC 1213 MIB II RFC 1493 Bridge RFC 1757 RMON RFC 1643 Ether-like MIB Private MIB IEEE 802.1p RFC 2674 IF MIB
RFC 2233 Interface MIB
IGMP MIB
RIP MIB
OSPF V2 MIB
CIDR MIB RFC2096
RFC 2096 IP Forwarding Table MIB

RMON

4 Groups of RMON (Statistics, History, Alarms, Events) RMON 1,2,3,9

Port Configuration & Monitoring

Auto-Negotiation Support Port Mirroring Support Broadcast Storm Control

Port Trunking

Support Static Mode Trunking

IEEE 802.3ad

802.3ad Link Aggregation (LACP)

Security

RADIUS Client
Support IEEE 802.1x Port-based Access Control
Support IEEE 802.1x MAC-based Access Control
SSH
TACACS/TACACS+
SSL

Support Cisco-like Port Security Access Control List Support (ACL):

- 8 Profiles - 50 Rules

Based on MAC Address
Based on VLAN
Based on IP Address
Based on TCP/UDP Port Number
Based on IEEE 802.1p
Based on Port
Based on TCP/UDP Payload

Stacking Function

Ring Stacking with up to 12 AT-9724TS through 2 stacking ports in the rear providing 40Gbps stacking bandwidth

Management Support

Routing -IP

RIPvI & v2
OSPF Support
IP v4 Support
IP Fragmentation Support
IP Multi-netting
Floating Static Route
VRRP

Ordering Information

AT-9724TS-20

24 port 10/100/1000TX Stackable Layer 3+ Gigabit Ethernet switch + 4 SFP Combo

With:

- Three power cords (US, UK, European)
- Stacking cable.
- Two year warranty

AT-RPS9700-xx

2-slot Redundant PSU Frame for AT-9700 Series

AT-PWR9700-xx

PSU modules for AT-RPS9700 (max 2)

AT-SPSX

Multimode Fiber, GbE Small Form Factor Pluggable (SFP), 500m, 850nm

AT-SPLX 10

Singlemode Fiber, GbE Small Form Factor Pluggable (SFP), 10km, 1310nm

AT-SPSLX40

Singlemode Fiber, GbE Small Form Factor Pluggable (SFP), 40km, 1310nm

AT-SPLX40/1550

Singlemode Fiber, GbE Small Form Factor Pluggable (SFP), 40km, 1550nm

AT-SPZX80/xxxx

Singlemode Fiber, GbE Small Form Factor Pluggable (SFP), 80km, 1550nm

USA Headquarters | 19800 North Creek Parkway | Suite 200 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895 European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11 Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

www.alliedtelesis.com

© 2006 Allied Telesis Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners. 617-005820 Rev. G



