# Switches

## 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 functionality switch designed to meet the requirements of multimedia switches and bring traffic control and high performance to the edge of the network. With IP routing capabilities for investment protection and flexible management tools, the AT-9724TS is designed to be a cost effective solution for todays market with the ability to expand as network demands grow - at no extra cost. 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 multimedia services like voice and video applications 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 universities. Utilising a powerful switch fabric, the AT-9724TS pass traffic reliably and efficiently with wirespeed performance and non-blocking architecture. When stacked up to 288 ports with the integrated stacking modules, the switches pass data packets at an impressive stacked backplane speed of 40Gbps.

### Rich feature set

A rich set of features is included to provide full support for multimedia Layer 3 applications. All switches include Layer 3 IP Static Routing, RIP, RIPv2, IGMPv2 and OSPFv2 routing protocols.

### 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 x 10G 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 front panel. Ring mode provides the highest resiliency available.

### Scalability

Each switch supports four optional SFP connectors, which allow the switched network to be extended of fibre optic cabling.

### Management

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

### Key features

Stack up to 288 ports
- 40Gbps dedicated stack ports (2 x 10Gbps ports)

88Gbps switching fabric, 65.5Mpps
- Wirespeed
- 4 SFP bays for fibre media
- Supports up to 4096 VLANs

Eight Priority queues per port
- GVRP support
- Full QoS for multimedia applications
- Wirespeed Layer 2 to 3 filtering
- Wirespeed Layer 2 switching
- Wirespeed Layer 3 IP routing

Jumbo Frame up to 9000bytes
- IP RIPv1/v2
- VRRP support
- Rapid Spanning Tree protocol

IEEE 802.1S Multiple Spanning Tree support
- SSH for management
- SSL
- IGMPv1 and IGMPv2
- Web-based management
- SNMP support
- RMON support

IEEE 802.1x authentication
- Port Security
- Port Mirroring
- 1 RU form factor

Redundant power supply option

Two years warranty

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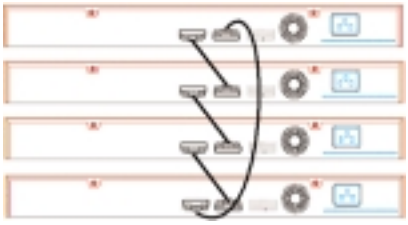
## About Allied Telesyn

Allied Telesyn International is a member of the Allied Telesis Group (ATI) who, founded in 1987, now has offices throughout the globe, over 3,000 employees worldwide and over $600M of worldwide annual revenue. The attributes which have led ATI to achieve its leading position in both the enterprise, operator and connectivity business segments can be summarised by four key elements: its business focus on networking technology for professional markets, where ATI has proved to be the only company capable of providing a total end-to-end solution at a high price/performance ratio; the ability to handle every aspect of its own products from design to marketing; the development of components and solutions which accommodate flexible, efficient and reliable network construction; support from sound warranty terms and quality services. Allied Telesyn connects the IP world efficiently thanks to affordable and highly reliable network solutions. For more information see: www.alliedtelesyneurope.com <http://www.alliedtelesyn.com>

## Service & Support

Allied Telesyn provides value-added support services for its customers under its Net.Cover® programs. For more information on Net.Cover® support programs available in your area, contact your Allied Telesyn sales representative or visit our website.
**www.alliedtelesyn.com**



Ring [Bus] Architecture

### PERFORMANCE

88Gbps switching fabric, 65.5Mpps forwarding rate
14,880pps for 10Mbps Ethernet
148,800pps for 100Mbps Ethernet
1,488,000pps for 1000Mbps Ethernet
MAC addresses 16,000
Buffer Memory 2MB
VLANs 4,000 VLANs (256 Dynamic)
Auto-negotiation speed and duplex
Auto-MDI/MDI-X
Trunk groups Up to 32 groups, up to 8 ports each group
L3 Host IP Table up to 3,000 entries
IP Multicast Table support 256 IP multicast table

### RELIABILITY

MTBF

| | |
|---|---|
| AT-9724TS | 171,583 hours |

### INTERFACE CONNECTIONS

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

### NETWORK MANAGEMENT

SNMP
Web-based management
RS232 console access
Command Menu Interface (ATI Omega)
Telnet

### PHYSICAL CHARACTERISTICS

| | |
|---|---|
| Height | 4.4cm (1.7") |
| Width | 44cm (17.3") |
| Depth | 21.0cm (8.5") |
| Weight | 3.2Kg |
| Mounting | 19" rackmountable, hardware included |

### STANDARDS AND 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 802.1Q VLAN Tagging
IEEE 802.3x Flow Control
RFC 1112 IGMP Snooping v1
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
RIPv1 & v2
RFC 1850 OSPF
VRRP
DVMRP
PIM Dense Mode
IGMPv2
GARP/GVRP

### SNMP STANDARDS

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°C – 40°C (32°F – 104°F) |
| Storage Temp | -25°C – 55°C |
| Relative Humidity | Range 5% – 95% non-condensing |
| Weight | 3.2kg |

### APPROVALS

UL 1950
FCC Class A
CSA 22.2 No. 950
EN55022 Class A
EN 60950 (TUV)
EN50082-1
CE

### COUNTRY OF ORIGIN

Taiwan

# AT-9724TS, Managed Layer 3 Stackable Gigabit Ethernet Switch

## SUMMARY OF FEATURES

CoS
- 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
- DSCP

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

VLAN
- IEEE 802.1Q support
- GARP/GVRP
- Number of Static VLANs supported per device
- Static + dynamic =4096
- Max. dynamic VLAN = 255
- Max. static VLAN = 4096

IP Multicast
- IGMP Snooping

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

Management
- Password enabled
- Web-based support
- SNMP v1 support
- SNMP v2c support
- SNMP v3 support
- TACACS+ Authentication
- RADIUS Authentication
- TFTP upgrade
- Command Line Interface (CLI)
- Traffic Segmentation
- Bandwidth control (1Mbps increments)
- Support SYSLOG
- Support Port Security
- Web GUI Traffic Monitoring
- Web MAC address Browsing
- SNTP support
- Single IP Management v1.0
- Port Description
- CPU Utilisation 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

RMON
- 4 Groups of RMON (Statistics, History, Alarms, Events)

Port configuration and 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 Protocol Type
- Based on TCP/UDP port number
- Based on IEEE 802.1p
- Based on DSCP
- 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

RIP
- RIPv1 & v2

OSPF
- OSPF support

Routing –IP
- IP v4 support
- IP Fragmentation support
- IP multi-netting
- Floating static route
- VRRP

IP Multicast
- IGMP v.2
- DVMRP
- PIM Dense mode support

MIB Support
- IGMP MIB
- RIP MIB
- OSPF RFC1850
- CIDR MIB RFC2096
- RFC 2096 IP Forwarding Table MIB

## ORDERING INFORMATION

### AT-9724TS-xx

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

Where xx = 10 for U.S. power cord
20 for no power cord
30 for U.K. power cord
50 for European power cord

### AT-RPS9700

2-slot Redundant PSU frame

### AT-PWR9700

PSU modules for AT-RPS9700 (max. 2)

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