

AT-9000/52

Managed Layer 2 Gigabit Ethernet ECO-Switch



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52 port Gigabit managed 'Green' switch with 48 port 10/100/1000Mbps fixed configuration and 4 active 100/1000Mbps SFP ports

Overview

One of a series of high performance Gigabit Ethernet switches from Allied Telesis. The AT-9000/52 provides high performance Layer 2 switching at an affordable fixed configuration platform. The switch brings advanced enterprise features to a more affordable level while supporting the changing needs of the SMB market space to improve the delivery of converged data. Support for jumbo Ethernet frames enables higher throughput of time sensitive data.

Environmentally Friendly ECO-Switch

In keeping with our commitment to environmentally friendly processes and products, the AT-9000/52 extends the range of green products designed to reduce power consumption, minimize hazardous waste and even reduce office noise pollution. Among many features including the use of high efficiency power supplies, and low power chipsets we have also included an ECO-Switch button on the front panel of the AT-9000/52 switch. This allows you to conserve additional power by turning off the port and MODE LEDs when they are not required.

Low Power Consumption with Near Silent Operation

Specifically designed to be usable in a classroom or retail store environment the AT-9000/52 uses the latest in low power technologies to minimize power consumption and operational noise.

Ideal Branch Office and Wiring Closet Connectivity

Powerful line rate performance makes this switch ideal for branch offices or the wiring closet of larger offices. The state-of-the art QoS capability of this product ensures reliable delivery of advanced network services such as voice and video, while effectively controlling the continually increasing traffic needs found in today's networks.

Easy Access Networking

Featuring an industry standard CLI and Allied Telesis' intuitive featured Web interface the advanced features of the AT-9000/52 are accessible to a wide range of system administrators. The well known CLI and Web interfaces significantly reduce learning time and minimize the cost of deployment.

Secure Management

Only authorized administrators can access the management interface of the AT-9000/52. Protocols such as SNMPv3 facilitate this protection of your network with local or remote connections.

Securing the Network Edge

To ensure the protection of your data, it is important to control access to your network. Protocols such as IEEE 802.1x port-based authentication guarantee that only known users are connected to the network. Unknown users who physically connect can be isolated to a predetermined part of your network offering guests such benefits as Internet access while ensuring the integrity of your private network data.

Key Features

Easy, Well Known Management

- Industry standard CLI
- Simple intuitive, Allied Telesis Web interface
- SNMP

Ideal Product for Classroom or Retail Environment

- 52 active ports
- Lower power consumption
- Near silent operation

Securing the Network at its Most Vulnerable Point

- IEEE 802.1× and port security (limited/dynamic)
- IEEE 802.1x basic port mode
- IEEE 802.1x multiple host mode
- IEEE 802.1× EAP-MD5
- Radius client
- SSH server

All the QoS Needed for an Open Office, Classroom or Retail Store Environment

- Eight priorities queues
- IEEE 802.1p for Layer 2 QoS





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Technical Specifications

Physical Interface

48 IO/IOO/IOOOT ports for copper connectivity and 4 SFP ports RJ-45 console port

System Capacity

128MB RAM 16MB flash memory 8K MAC address

Packet buffer memory 4Mbit

Maximum Bandwidth

Non-blocking for all packet sizes Throughput 77.35Mpps Switching capacity 104Gbps 124Gbps Switch fabric speed Supports 9216 jumbo packets

Latency

10Mbit > 76.86 usec 100Mbit > 11.43 usec > 4.18 usec 1000Mbit

Port Configurations

Auto-negotiation, duplex, MDI/MDI-X IEEE 802.3x flow control / back pressure Head of Line (HoL)

Storm Control

Broadcast, multicast and unicast (DLF)

Spanning-Tree Support

IEEE 802.1D Spanning-Tree Protocol IEEE 802.1w Rapid Spanning-Tree Pass-through BPDU

Link Aggregation

Static port trunk IEEE 802.3ad LACP link aggregation Support for 12 groups per device

Trunk can support up to eight members per group

VLANs

Supports up to 4094 VLAN IDs Support for 255 active VLANs Port-based IEEE 802.1Q VLAN tag GARP **GVRP** GMRP

General Protocols

MAC address aging Port mirroring RFC 826 ARP DHCP

RFC 2131 DHCP client

Administration

Web-based GUI Industry standard CLI RFC 854 Telnet Network Time Protocol HTTP TFTP

Quality of Service (QoS)

IEEE 802.Ip QoS Eight priority queues Strict priority and weighted round robin

Multicast Standards

Layer 2 multicast forwarding and filtering up to 256 groups IGMPvI and IGMPv2

Network Management

RFC 1157	SNMPv1/v2c
RFC 2570	SNMPv3
RFC 1215	SNMP traps
RFC 1213	MIB-II

Extended interface MIB RFC 1573 RFC 1757 RMON 4 groups:

Stats, History, Alarms, Events

Security

Port security (limited/dynamic) IEEE 802.1x Basic port base IEEE 802.1x Multiple host mode IEEE 802.1x EAP-MD5 RFC 2865 Radius client

SSH server

Power Specifications

AC input electrical ratings 100-240V AC, IA Frequency 50/60Hz Maximum DC current 3.8A 46.13W Maximum power consumption

Typical power consumption

in eco friendly mode 44.92W Power supply efficiency 83%

153.30BTU /hours Heat dissipation

Maximum acoustic noise 44.3 dB

Compliance Standards

IEEE 802.3

100TX with auto-negotiation IEEE 802.3u 1000T Gigabit Ethernet IEEE 802.3ab

100FX SFP support 1000X SFP support

Environmental Specifications

Operating temp. 0°C to 40°C (32°F to 104°F) -25°C to 70°C (-13°F to 158°F) Storage temp. Operating humidity 5% to 90% (non-condensing) Storage humidity 5% to 95% (non-condensing)

Operating altitude range, up to 3,000 meters (9,843 feet)

Allied Telesis www.alliedtelesis.com

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Safety and Electromagnetic Emissions Certifications

EMI FCC Class A, CISPR 22 Class A,

EN55022 Class A, C-TICK, VCCI Immunity EN55024, EN61000-3-2 and

EN61000-3-3

Safety UL 60950 (cULus),

EN60950-I (TUV)

Quality and reliability MTBF — 340,000 hours

RoHS Standards

Compliant with European, China and RoHS standards

Package Description

AT-9000/52 switch
AC power cord
Management cable (RJ-45 to DB-9)
Rubber feet for desktop installation and
19" rack-mountable hardware kit accessories
Install guide and CLI user's guide available on the CD
and at www.alliedtelesis.com

Physical Specifications

Dimensions 44cm x 25.6cm x 4.4cm (W x D x H) (17.33" x 10.08" x 1.73")

Weight 4.06 kg (8.95 lbs)

Country of Origin

Singapore

Ordering Information

AT-9000/52-xx

52 port Gigabit managed switch with 48 port 10/100/1000Mbps fixed configuration and 4 active SFP ports

Where xx = 10 for US

20 for no power cord 30 for UK 40 for Australian 50 for European

Accessories

Small Form Pluggables (SFPs)

AT-SPEX

Multi-mode Fiber, 2km, GbE, SFP, 1310nm

AT-SPSX

Multi-mode Fiber, GbE Small Form-factor Pluggable (SFP) 850nm

AT-SPSX/I

Multi-mode Fiber, GbE Small Form-factor Pluggable (SFP) 850nm

AT-SPFX/2

Multi-mode Fiber, 2km, 100FX, SFP, 1310nm

AT-SPFX/15

Multi-mode Fiber, 15km, 100FX, SFP, 1310nm

AT-SPFX/40

Multi-mode Fiber, 40km, 100FX, SFP, 1310nm

AT-SPLX 10

Single-mode Fiber, 10km, GbE SFP, 1310nm

AT-SPLX I 0/I

Single-mode Fiber, 10km, GbE SFP, 1310nm

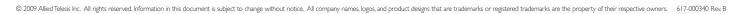
AT-SPI X40

Single-mode Fiber, 40km, GbE SFP, 1310nm

AT-SPZX80

Single-mode Fiber, 80km, GbE SFP, 1550nm

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