

PRELIMINARY



AT-9000/28

Managed Layer 2 Gigabit Ethernet ECO-Switch

AT-9000/28

28 port Gigabit managed switch with 24 port 10/100/1000Mbps fixed configuration and 4 additional 100/1000Mbps SFP ports in combination with 10/100/1000T ports

Overview

A high performance Gigabit Ethernet switch from Allied Telesis, the AT-9000/28 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-9000/28 is the first of our new green range of 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-9000/28 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-9000/28 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-9000/28 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-9000/28. 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

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

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

- Eight priorities
- IEEE 802.1p for Layer 2 QoS
- DSCP (DiffServ) for Layer 3 QoS
- IEEE 802.Ip to DSCP remarking traffic ready for transport to the Layer 3 core of the network

Securing the Network at its Most Vulnerable Point

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

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Technical Specifications

Physical Interface

24 10/100/1000T ports for copper connectivity and 4 SFP or 10/100/1000T combo ports RJ-45 console port

System Capacity

128MB RAM 16MB flash memory 8K MAC address

Maximum Bandwidth

Non-blocking for all packet sizes
Throughput 41.6Mpps
Switching capacity 56Gbps
Switch fabric speed 62Gbps
Supports 9216 jumbo packets

Latency

 10Mbit
 > 78.77 usec

 100Mbit
 > 1.25 usec

 1000Mbit
 > 3.79 usec

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

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 static IP configuration
RFC 2131 DHCP client

Administration

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

Quality of Service (QoS)

IEEE 802.1p QoS Eight priority queues Strict priority and weighted round robin

Multicast Standards

Layer 2 multicast forwarding and filtering up to 256 groups IGMPv1 and IGMPv2

Network Management

RFC 2570 SNMPv3
RFC 1215 SNMP traps
RFC 1213 MIB-II
RFC 1573 Extended interface MIB
RFC 1757 RMON 4 groups:
Stats, History, Alarms, Events

SNMPv1/v2c

Security

RFC 1157

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, 1A
Frequency 50/60Hz
Maximum DC current 3.5A
Maximum power consumption 30.74W
Maximum power consumption in eco friendly mode 30.14W

Power supply efficiency 83% Heat dissipation 104.09BTU /hours Maximum acoustic noise 37.4 dB-A

Compliance Standards

IEEE 802.3 10T
IEEE 802.3u 100TX with auto-negotiation
IEEE 802.3ab 1000T Gigabit Ethernet
100FX SFP support
1000X SFP support

Environmental Specifications

Operating temp. 0°C to 40°C (32°F to 104°F)
Storage temp. -25°C to 70°C (-13°F to 158°F)
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)

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 UL 60950 (cULus), EN60950-1 (TUV)

Quality and reliability MTBF — 340,000 hours

RoHS Standards

Compliant with European and China and RoHS standards

Package Description

AT-9000/28 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 3.62 kg (8.00 lbs)

Allied Telesis www.alliedtelesis.com

AT-9000/28 | Managed Layer 2 Gigabit Ethernet ECO-Switch



AT-9000/28 switch back panel

Ordering Information

AT-9000/28-xx

28 port Gigabit managed switch with 24 port 10/100/1000Mbps fixed configuration and 4 additional 100/1000Mbps SFP ports in combination with 10/100/1000T ports

Where xx = 10 for US

20 for no power cord

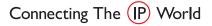
30 for UK

40 for Australian

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USA Headquarters | 19800 North Creek Parkway | Suite 100 | 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

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 $Asia-Pacific\ Headquarters\ |\ I\ I\ Tai\ Seng\ Link\ |\ Singapore\ |\ 534182\ |\ T:\ +65\ 6383\ 3832\ |\ F:\ +65\ 6383\ 3830$ www.alliedtelesis.com

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