

## AT-GS900/8E

### Unmanaged Gigabit Ethernet Switches



#### AT-GS900/8E

8 port 10/100/1000T unmanaged switch, ext P/S

#### ECO-Friendly

The AT-GS900/8E eco friendly switch conforms with Allied Telesis' commitment to environmentally friendly processes and products. It is designed to minimize power consumption through the use of a high efficiency power supply and a low power chipset.

With a low 3.8W typical power consumption\* and a reduction in power during after-work hours (overnight mode) – as well as other power saving features included as standard, the Allied Telesis AT-GS900/8E truly lives up to its name as an 'eco friendly' switch.

Not only does this help the planet by reducing the carbon footprint of each switch, it also lowers the Total Cost of Ownership (TCO) to the user, as the product costs less to run, and has improved reliability.

With all of these power saving features, the new eco friendly AT-GS900/8E saves the user up to 60% in power consumption over our previous version (see power saving table).

#### High Performance

Providing powerful 10/100/1000 switching solutions for desktop and small network environments, the Allied Telesis GS900 series of unmanaged switches features full auto-negotiating 10/100/1000T ports. These ports enable the switches to detect the speed and duplex modes of attached devices, enabling them to automatically configure for the best possible performance.

#### Flexibility

Available in 5 and 8 port models, Allied Telesis lets you decide which size is best for your network. Reduces your cost by allowing you to only pay for the ports you need.

#### Simplified Installation

The GS900 series switches require minimal configuration and can be installed in minutes via wall-mount or desktop. The 10/100/1000T copper ports on the GS900 series are fully auto-negotiating, allowing the switches to connect to all other 10Mbps Ethernet, 100Mbps Fast Ethernet, or 1000Mbps Gigabit Ethernet devices. Equipped with MDI/MDI-X ports for easy connection to other hubs and switches, the GS900 series offers a natural migration path from legacy networks and a cost-effective introduction to Gigabit Ethernet. Finally, easy to read front panel LEDs show ongoing switch status and simplify troubleshooting.

#### Quality and Reliability

Allied Telesis is a worldwide leader in unmanaged Ethernet switches. Shipping more than 250,000 unmanaged switches every year, Allied Telesis offers proven reliability and industry recognized quality.

#### Key Features

- Wirespeed performance
- Non-blocking architecture
- Auto-negotiation Gigabit ports
- Auto MDI/MDI-X on TX ports
- Transparent to VLAN packets
- Full-duplex flow control

#### Power-saving Features

- Maximum switch power consumption – 4.9W
- Typical switch power consumption - 3.8W\*
- Overnight mode - when PCs are powered off, the switch reduces power
- Power down mode
- Measure and minimize - checks the lengths of the cable and sends only enough power for specific cable length

\*6 ports connected with 3M cables



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## Performance

14,880pps for 10Mbps Ethernet  
148,800pps for 100Mbps Ethernet  
1,488,000pps for 1000Mbps Ethernet

Throughput 11.9Mpps  
Switching capacity 16Gbps

MAC addresses Up to 4K

Packet buffer 832KB

Half/full-duplex 1K  
Auto-negotiation  
MDI/MDI-X

## Interface Connections

10/100/1000T RJ-45

## Power Characteristics

Rated input voltage 100-240V AC  
Rated input frequency 50/60Hz  
Rated input current 0.3A  
Input voltage range AC 100~240V  
Output voltage DC 7.5V  
Output current 1.0A  
Output watt 7.5Watt  
Power consumption 3.975Watt

## Power Saving % Chart

| Ports          | Status                        | Non-green vs Green Power Saving % |         |            |         |
|----------------|-------------------------------|-----------------------------------|---------|------------|---------|
|                |                               | 3m cable                          |         | 100m cable |         |
|                |                               | AC side                           | DC side | AC side    | DC side |
| Overnight mode |                               | 59.1%                             | 25.2%   | 60.3%      | 23.6%   |
| 8 port         | Only link, no traffic         | 36.0%                             | 27.2%   | 26.8%      | 16.2%   |
|                | Smartbit, 100% utilization TX | 35.5%                             | 26.6%   | 26.2%      | 19.4%   |
| 7 port         | Only link, no traffic         | 36.7%                             | 27.8%   | 27.5%      | 17.5%   |
|                | Smartbit, 100% utilization TX | 36.7%                             | 26.4%   | 27.8%      | 17.3%   |
| 6 port         | Only link, no traffic         | 38.1%                             | 29.3%   | 28.6%      | 18.3%   |
|                | Smartbit, 100% utilization TX | 38.0%                             | 28.0%   | 28.4%      | 17.5%   |
| 5 port         | Only link, no traffic         | 38.8%                             | 28.6%   | 30.4%      | 19.0%   |
|                | Smartbit, 100% utilization TX | 39.4%                             | 30.0%   | 31.4%      | 21.4%   |
| 4 port         | Only link, no traffic         | 41.9%                             | 29.6%   | 34.7%      | 22.0%   |
|                | Smartbit, 100% utilization TX | 41.1%                             | 31.3%   | 34.2%      | 24.8%   |
| 3 port         | Only link, no traffic         | 43.6%                             | 31.1%   | 38.0%      | 24.2%   |
|                | Smartbit, 100% utilization TX | 45.1%                             | 32.7%   | 39.9%      | 28.0%   |
| 2 port         | Only link, no traffic         | 48.3%                             | 32.0%   | 43.6%      | 27.7%   |
|                | Smartbit, 100% utilization TX | 48.4%                             | 36.1%   | 43.8%      | 30.5%   |

## Environmental Specifications

Operating temp. 0°C to 40°C (32°F to 104°F)  
Non-operating 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

## Technical Specifications

### Physical Characteristics

Dimensions 17.1cm x 9.8cm x 2.8cm  
(H x W x D) (6.73in x 3.86in x 1.1in)

Weight .389g (0.857lbs)

## Wall-mount or Desktop

All units come with wall-mount hardware

## Standards and Compliance

IEEE 802.3 10T Ethernet  
IEEE 802.3u 100TX Fast Ethernet  
IEEE 802.3ab 1000T Gigabit Ethernet  
IEEE 802.3z Full-duplex  
IEEE 802.3x Flow control

## Electrical/Mechanical Approvals

UL 1950  
FCC/EN55022 Class A  
VCCI Class A  
C-Tick  
EN60950 (TUV)  
EN55024  
CE

## Ordering Information

### AT-GS900/8E

8 port 10/100/1000T unmanaged switch, external P/S

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

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