

# AT-GS950/16

## 16 port Gigabit WebSmart Switch



### AT-GS950/16-xx

16 port 10/100/1000T WebSmart switch with 2 SFP combo ports

### Performance

Allied Telesis' WebSmart switch integrates the simplicity of unmanaged switches with the performance and reliability of managed switches to provide a cost-effective solution for users to integrate management at the edge of their network. This WebSmart switch provides a network manager some key features using the simple web-based management function such as; port-based VLANs, IEEE 802.1p QoS, port trunking/link aggregation, port mirroring, priority queues and IEEE 802.1x security support. With support of up to 8K MAC addresses and a 2MB packet buffer the AT-GS950/16 WebSmart switch is an ideal option for integrating management into your network solution.

### Value

Never thought you could afford managed switches in your network? Always wanted to provide management functionality at the edge? Now's your chance. Allied Telesis' WebSmart switch truly helps network managers get the most value for their dollar. With industry standard protocols, fiber media support via the SFP's and simple Plug & Play usability right out of the box how can you go wrong implementing this cost-effective solution into your network?

### Quality and Reliability

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

### Key Features

#### VLAN

- VLAN ID's available: 4K
- Max VLANs: 200 tagged + 5 port-based

#### Quality of Service Classification

- IEEE 802.1p tagging
- Port-based priority
- Four priority queues per port

#### IP Multicast Support (IPv4)

- IGMP snooping (v1/v2)
- Static multicast group

- Spanning-Tree, IEEE 802.1d/w

#### IEEE 802.3ad Link Aggregation

- Manual

#### IEEE 802.1x Port-based and MAC-based Network Access Control

- Local authentication server (MD5 only)
- Remote authentication through RADIUS
- Dynamic VLAN assignment

- RADIUS client for IEEE 802.1x

- DHCP client

- Statistics charts in Web

#### Others

- IEEE 802.3x flow control or \*HOL blocking Prevention (\*when flow control is off)

- Port mirroring

- Destination MAC filtering

- Ingress/egress rate limiting

- Broadcast storming control

- 100FX SFP support

- Switch fabric - non-blocking, full wirespeed

### Management Features

- Firmware upgrade by FTP and Web

- Configuration back-up/restore by FTP

- Factory reset

- Password access control and restricted IP access list

- SNMPv1/v2c

#### MIBs

- RFC 1213 MIB-II
- RFC 1643 Ethernet MIB
- RFC 1493 Bridge MIB
- Private Enterprise MIB (Allied Telesis provides the spec)

#### RMON Groups (1, 2, 3, 9)

- Stats
- History
- Alarms
- Events

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## Performance

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

MAC addresses 8K  
VLAN ID's available 4K  
Max VLANs 200 tagged + 56 port-based

Multicast Up to 32 static multicast groups

Packet buffer 2MB

DRAM 16MB  
Flash 4MB  
Switch memory 2MB embedded

Switching capacity 32Gbps  
Throughput 23.8Gbps

## Power Characteristics

Voltage 100-240V AC  
Frequency 50/60Hz

## Interface Connections

10/100/1000T RJ-45  
SFP 100TX, 100FX, 1000T,  
1000SX or 1000LX

## Environmental Specifications

Operating temp. 0°C to 45°C  
(32°F to 113°F)  
Non-operating temp. -20°C to 70°C  
(-4°F to 158°F)  
Operating humidity 5% to 90% non-condensing  
Storage humidity 5% to 95% non-condensing  
Vibration IEC 68-2-36  
Shock IEC 68-2-29  
Drop IEC 68-2-32

## Technical Specifications

### Physical Characteristics

Dimensions 35.2cm x 25.6cm x 4.32cm  
(W x D x H) (13.9 x 8.5 x 1.7 in)

Weight 2.38kg (5.25 lbs)

### Wall-mount or Desktop

All units come with wall / 19" rack-mount brackets

## Standards and Compliance

|                |                              |
|----------------|------------------------------|
| IEEE 802.3     | CSMA/CD                      |
| IEEE 802.3i    | 10T                          |
| IEEE 802.3u    | 100TX                        |
| IEEE 802.3z    | 1000SX/LX                    |
| IEEE 802.3z/ab | 1000T                        |
| IEEE 802.3x    | Flow control                 |
| IEEE 802.1p    | Prioritization (four queues) |
| IEEE 802.1x    | Authentication               |
| IEEE 802.1d    | Bridging                     |
| IEEE 802.3ad   | Link aggregation             |
| IEEE 802.1Q    | Tagged VLAN                  |
| IEEE 802.1d/w  | Spanning-Tree                |
|                | Rapid Spanning-Tree          |

## Electrical/Mechanical Approvals

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

## MTBF

187,805 hours  
Bellcore TR332

## Ordering Information

### AT-GS950/16-xx

16 port 10/100/1000T WebSmart switch  
with 2 SFP combo ports

Where xx = 10 for US power cord  
20 for no power cord  
30 for UK power cord  
40 for Australian power cord  
50 for European power cord

## Product Contents

Switch unit  
Rack-mount brackets and screws  
Power cord  
User manual/install guide on CD  
Rubber feet

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