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## Allied Telesis AT-GS950/18PS V2

# Allied Telesis AT-GS950/18PS V2 Gigabit Ethernet PoE+ Smart Switch

User Manual

## 1. Introduction

This user manual provides comprehensive instructions for the installation, configuration, operation, and maintenance of the Allied Telesis AT-GS950/18PS V2 Gigabit Ethernet Smart PoE+ Switch. This device is designed to provide reliable network connectivity and power delivery for various network devices.
Please read this manual thoroughly before using the product to ensure proper and safe operation. Keep this manual for future reference.

## 2. Product Overview

The Allied Telesis AT-GS950/18PS V2 is a Gigabit Ethernet Smart PoE+ switch featuring IEEE 802.3at compliant PoE+ functionality. It simplifies network deployments by delivering both data and power over a single Ethernet cable, making it ideal for powering devices such as wireless LAN access points and IP cameras.
This switch also incorporates advanced intelligent features like VLAN support, Quality of Service (QoS), and Loop Detection Function (LDF). Management and maintenance are facilitated through an intuitive Web Graphical User Interface (GUI), accessible via a standard web browser.

Figure 2.1: Front view of the Allied Telesis AT-GS950/18PS V2 switch, showing the 16 PoE+ Gigabit Ethernet ports, 2 SFP slots, and LED indicators for power, system status, and port activity.

## 3. Features

- **Gigabit Ethernet Ports:** 16 x 10/100/1000BASE-T ports with PoE+ (Power over Ethernet Plus) capability.
- **SFP Slots:** 2 x SFP slots for fiber optic uplink connections.
- **PoE+ Support (IEEE 802.3at):** Provides up to 30W per port for compatible devices, simplifying power infrastructure.
- **Smart Features:** Includes VLAN (Virtual Local Area Network) for network segmentation, QoS (Quality of Service) for traffic prioritization, and LDF (Loop Detection Function) to prevent network loops.
- **Web GUI Management:** Easy configuration and monitoring through a user-friendly web-based interface.
- **Fanless Design:** Ensures silent operation, suitable for office environments.
- **Rack-Mountable:** Includes a 19-inch rack mount kit for flexible installation.

## 4. Package Contents

Verify that all items are present and in good condition. If any item is missing or damaged, contact your vendor immediately.

- Allied Telesis AT-GS950/18PS V2 Switch Unit
- Power Cable (AC100V compatible)
- Power Cable Retention Hook
- English Product Information Sheet
- Product Warranty Card (5 years)
- Serial Number Stickers (2 sheets)
- 19-inch Rack Mount Kit (1 set)
- Rubber Feet (4 pieces)

*Note: The included power cable is for AC100V. If using AC200V, please consult with your installer.*

## 5. Setup

### 5.1 Physical Installation

The AT-GS950/18PS V2 can be installed on a desktop or mounted in a standard 19-inch equipment rack.

1. **Desktop Installation:** Attach the provided rubber feet to the bottom of the switch to prevent slipping and ensure proper ventilation. Place the switch on a flat, stable surface.
2. **Rack Installation:** Use the included rack mount kit to secure the switch in a 19-inch equipment rack. Ensure adequate space for airflow around the unit.

Ensure the installation location is well-ventilated, free from excessive dust, and within the specified operating temperature and humidity ranges.

### 5.2 Network Connection

1. Connect network devices (e.g., computers, servers, IP cameras, wireless access points) to the 10/100/1000BASE-T Ethernet ports (1-16) using standard Ethernet cables.
2. For devices requiring power, ensure they are PoE or PoE+ compatible and connect them to the PoE+ enabled ports.
3. For uplink connections to other network devices or the core network, use the SFP slots (17-18) with appropriate

SFP transceivers and fiber optic cables.

### 5.3 Power On

1. Connect the power cable to the AC inlet on the rear panel of the switch.
2. Secure the power cable with the provided retention hook to prevent accidental disconnection.
3. Plug the other end of the power cable into a suitable AC power outlet.
4. The system will power on automatically. Observe the LED indicators on the front panel to confirm proper startup. The SYSTEM LED should turn green, and port LEDs will indicate link status and activity.

## 6. Operation

### 6.1 Web GUI Access

The switch can be managed via its web-based graphical user interface (GUI).

1. Ensure your computer is connected to the switch via an Ethernet cable and is on the same network segment.
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. Enter the default IP address of the switch in the browser's address bar. (Refer to the product's quick start guide or default settings for the exact IP address, typically 192.168.1.1 or similar).
4. Enter the default username and password when prompted. (These are usually provided in the quick start guide or on a label on the device).
5. Upon successful login, you will access the Web GUI dashboard, where you can monitor and configure the switch.

### 6.2 Basic Configuration

The Web GUI allows for various configurations, including VLANs and QoS.

- **VLAN Configuration:** Navigate to the VLAN section to create, modify, or delete VLANs. Assign ports to specific VLANs to segment your network and improve security and performance.
- **QoS Configuration:** Access the QoS settings to prioritize network traffic. This is crucial for applications sensitive to latency, such as VoIP or video streaming, ensuring their smooth operation.

### 6.3 PoE+ Management

Monitor and manage Power over Ethernet Plus (PoE+) settings through the Web GUI.

- View the power consumption of connected PoE+ devices.
- Enable or disable PoE+ on individual ports.
- Set power priorities for ports to ensure critical devices receive power first in case of budget limitations.

## 7. Maintenance

### 7.1 Firmware Updates

Regularly check the Allied Telesis support website for the latest firmware versions. Firmware updates can provide new features, performance improvements, and security enhancements.

1. Download the latest firmware file from the official Allied Telesis website.
2. Access the Web GUI and navigate to the firmware update section.
3. Follow the on-screen instructions to upload and install the new firmware. Do not power off the device during the update process.

### 7.2 Cleaning and Care

To ensure the longevity of your switch:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not use liquid or aerosol cleaners.
- Ensure ventilation openings are not blocked.

## 8. Troubleshooting

This section provides solutions to common issues you might encounter.

### 8.1 LED Indicators

Understanding the LED indicators can help diagnose problems:

| LED | Status | Description |
|---|---|---|
| **SYSTEM** | Green (Solid) | System is operating normally. |
| **SYSTEM** | Off | No power or system error. |
| **PoE ON** | Green (Solid) | PoE power is supplied to the port. |
| **PoE ERR** | Amber (Solid) | PoE error detected on the port (e.g., overcurrent, short circuit). |
| **LINK/ACT** | Green (Solid) | Valid network link established. |
| **LINK/ACT** | Green (Blinking) | Data activity on the port. |
| **LINK/ACT** | Off | No link or cable issue. |

### 8.2 Common Problems and Solutions

- **No Power:**
  - Check if the power cable is securely connected to both the switch and the power outlet.
  - Verify the power outlet is functional.
- **No Network Link:**
  - Ensure the Ethernet cable is properly connected to both the switch port and the connected device.
  - Check the cable for damage. Try a different cable.
  - Verify the connected device is powered on and functioning correctly.
- **PoE Device Not Powering On:**
  - Confirm the device is PoE/PoE+ compatible.
  - Check the PoE ON LED for the port. If PoE ERR LED is on, there might be an issue with the device or cable.
  - Verify the total PoE power budget of the switch is not exceeded.
- **Cannot Access Web GUI:**
  - Ensure your computer's IP address is on the same subnet as the switch's IP address.
  - Verify the switch is powered on and the network cable is connected.
  - Try clearing your browser's cache or using a different browser.
  - If the IP address was changed and forgotten, a factory reset might be necessary (refer to advanced manual for reset procedures).

## 9. Specifications

| Attribute | Value |
|---|---|
| **Brand** | Allied Telesis |
| **Model Number** | 4628R |
| **Product Dimensions (W x D x H)** | 44 x 25 x 4.4 cm |
| **Product Weight** | 4.46 Kilograms |
| **Color** | Gray |
| **Ethernet Ports** | 16 x 10/100/1000BASE-T (PoE-OUT) |
| **SFP Slots** | 2 |
| **PoE Standard** | IEEE 802.3at (PoE+) |
| **First Available Date** | December 7, 2021 |

## 10. Safety Information

Observe the following safety precautions to prevent injury and damage to the device:

- Do not operate the device near water or in excessively humid environments.
- Ensure proper grounding.
- Do not open the device casing. Refer all servicing to qualified personnel.
- Use only the power adapter and cables supplied or recommended by the manufacturer.
- Protect power cords from being walked on or pinched.
- Disconnect power before cleaning or moving the device.

## 11. Warranty and Support

This product comes with a 5-year product warranty. For warranty claims or technical support, please contact your authorized Allied Telesis reseller or visit the official Allied Telesis support website.
For the most up-to-date support resources, including FAQs, downloads, and contact information, please refer to:

Allied Telesis Global Support

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**Related Documents - AT-GS950/18PS V2**

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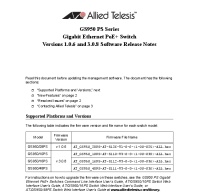
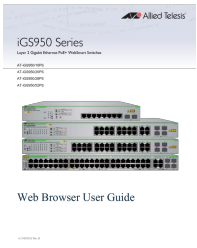
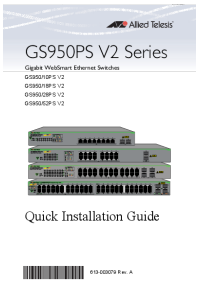
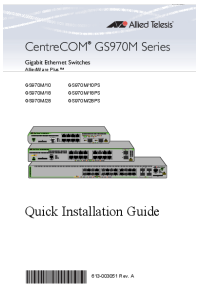
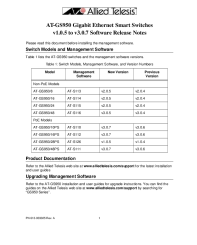
|  | Allied Telesis GS950 PS Series Software Release Notes v1.0.6 & 3.0.8<br>Software release notes for Allied Telesis GS950 PS Series Gigabit Ethernet PoE+ Switches, detailing new features and resolved issues for firmware versions 1.0.6 and 3.0.8. Includes support information and product links. |
|  | Allied Telesis iGS950 Series Web Browser User Guide<br>Comprehensive user guide for Allied Telesis iGS950 Series Layer 2 Gigabit Ethernet PoE+ WebSmart Switches, detailing web browser management features, configuration, and operation for models AT-iGS950/10PS, AT-iGS950/20PS, AT-iGS950/28PS, and AT-iGS950/52PS. |
|  | Allied Telesis GS950PS V2 Series Gigabit WebSmart Ethernet Switches Quick Installation Guide<br>Quick installation guide for Allied Telesis GS950PS V2 Series Gigabit WebSmart Ethernet Switches, covering front panels, PoE+ power budgets, installation, ports, powering on, management sessions, LEDs, and troubleshooting. |
|  | CentreCOM GS970M Series Quick Installation Guide<br>Quick installation guide for Allied Telesis CentreCOM GS970M Series Gigabit Ethernet Switches, covering front panels, PoE+ power budgets, installation options, port details, and troubleshooting. |
| | Allied Telesis GS970M Series Command Reference for AlliedWare Plus<br>Comprehensive command reference for Allied Telesis GS970M Series Managed Gigabit Ethernet Switches running AlliedWare Plus Operating System version 5.4.7-1.x. Covers CLI navigation, file management, user access, and advanced networking features. |
|  | Allied Telesis AT-GS950 Gigabit Ethernet Smart Switches Software Release Notes v1.0.5 to v3.0.7<br>Software release notes for Allied Telesis AT-GS950 Gigabit Ethernet Smart Switches, detailing resolved issues and operational notes for versions v1.0.5 through v3.0.7. |