Allied Telesis AT-X530L-52GTX-50

Allied Telesis AT x530L-52GTX - C3 Switch User Manual

Model: AT-X530L-52GTX-50

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Allied Telesis AT x530L-52GTX - C3 Switch. This managed switch is designed for robust network environments, offering 48 x 10/100/1000 ports and 4 x 1 Gigabit/10 Gigabit SFP+ uplink ports, suitable for rack mounting.

Figure 1: Front view of the Allied Telesis AT x530L-52GTX C3 Switch, showing all Ethernet and SFP+ ports, status LEDs, and the model number label.

2. Safety Information

Please read all safety warnings and precautions before installing or operating this device. Failure to comply with these instructions may result in injury or damage to the equipment.

- Ensure proper grounding of the equipment.
- Do not block ventilation openings.
- Use only the power supply provided or specified by the manufacturer.
- Avoid exposing the device to moisture or extreme temperatures.
- Only qualified personnel should perform installation and maintenance.

3. Package Contents

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

- Allied Telesis AT x530L-52GTX - C3 Switch
- Power Cord
- Rack Mount Kit (brackets and screws)
- Console Cable (RJ-45 to DB-9)
- Quick Start Guide

4. Physical Description

4.1 Front Panel

The front panel of the AT x530L-52GTX switch features all network ports, status indicators, and management interfaces.

Figure 2: Detailed view of the switch's front panel, highlighting the 48 Gigabit Ethernet ports, 4 SFP+ uplink ports, console port, and USB port.

- **48 x 10/100/1000BASE-T Ports:** RJ-45 connectors for standard Ethernet connections. Each port has corresponding Link/Activity LEDs.
- **4 x 1G/10G SFP+ Uplink Ports:** For high-speed fiber or copper connections to other network devices.
- **Console Port:** RJ-45 serial port for command-line interface (CLI) access.
- **USB Port:** For firmware upgrades or configuration backup/restore.
- **System Status LEDs:** Indicators for power, system status, and fan status.

4.2 Rear Panel

The rear panel typically contains the power input and cooling fan vents.

Figure 3: Side view of the switch, illustrating the mounting points for rack installation.

- **AC Power Inlet:** Connector for the power cord.
- **Cooling Vents:** Essential for heat dissipation. Ensure these are not obstructed.

5. Setup

5.1 Rack Mounting

The AT x530L-52GTX switch is designed for standard 19-inch rack mounting.

1. Attach the provided rack-mount brackets to the sides of the switch using the included screws.
2. Secure the switch into the rack using appropriate rack screws. Ensure it is level and stable.

5.2 Power Connection

1. Connect the power cord to the AC power inlet on the rear panel of the switch.
2. Plug the other end of the power cord into a grounded electrical outlet or a power distribution unit (PDU).
3. Verify that the Power LED on the front panel illuminates, indicating the switch is receiving power.

5.3 Network Connections

1. Connect Ethernet cables from your network devices (computers, servers, other switches) to the 10/100/1000BASE-T ports on the front panel.
2. For high-speed uplinks, insert compatible SFP or SFP+ transceivers into the SFP+ ports and connect fiber optic or DAC cables as required.
3. Observe the Link/Activity LEDs on each port to confirm successful connection and data transmission.

6. Operating Instructions

6.1 Initial Configuration

The switch can be configured via a web-based graphical user interface (GUI) or a command-line interface (CLI) through the console port.

- **Web GUI:** Connect a computer to any Ethernet port on the switch. The switch typically obtains an IP address via DHCP or has a default static IP. Refer to the Quick Start Guide for the default IP address and login credentials.
- **CLI:** Connect a computer to the console port using the provided console cable and a terminal emulation program (e.g., PuTTY, Tera Term) with settings: 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control.

6.2 LED Indicators

Understanding the LED indicators is crucial for monitoring switch status.

LED Name	Status	Description
PWR (Power)	Green (Solid)	Device is powered on.
SYS (System)	Green (Solid)	System is operating normally.
FAN	Green (Solid)	Fans are operating normally.
Link/Act (Per Port)	Green (Solid)	Link established.
Link/Act (Per Port)	Green (Blinking)	Data activity.

7. Maintenance

7.1 Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of the switch.

- Ensure the device is powered off and disconnected from the power source before cleaning.
- Use a soft, dry cloth to wipe the exterior of the switch.
- Use compressed air to clear dust from ventilation openings and ports. Do not use liquid cleaners or aerosols.

7.2 Firmware Updates

Periodically check the Allied Telesis website for the latest firmware updates. Firmware updates can provide new features, performance improvements, and security patches.

- Download the appropriate firmware file for your model from the official Allied Telesis support portal.
- Follow the instructions provided with the firmware update package for the upgrade process, typically via the web GUI or CLI.

8. Troubleshooting

This section addresses common issues you might encounter with the AT x530L-52GTX switch.

Problem	Possible Cause	Solution
Switch does not power on.	No power, faulty power cord, or power supply issue.	Check power cord connection, try a different outlet, ensure power source is active.
No link light on a connected port.	Bad cable, incorrect cable type, device not powered on, or port disabled.	Verify cable integrity, ensure connected device is on, check port status in switch configuration.
Cannot access web GUI.	Incorrect IP address, network configuration issue, or firewall.	Verify switch IP, ensure your computer is on the same subnet, temporarily disable firewall. Try CLI access.
Slow network performance.	Network congestion, duplex mismatch, or faulty cable.	Check network traffic, verify duplex settings on switch and connected devices, test with new cables.

If the problem persists after attempting these solutions, please contact Allied Telesis technical support.

9. Specifications

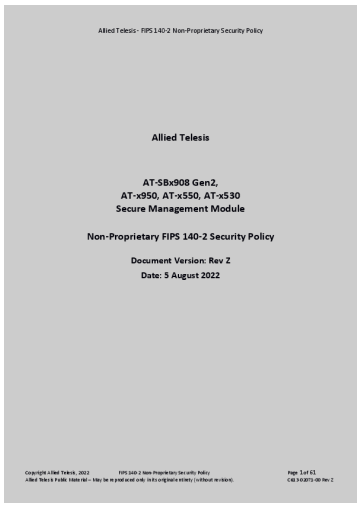
Detailed technical specifications for the Allied Telesis AT x530L-52GTX - C3 Switch.

Feature	Detail
Product Dimensions	17.72 x 22.83 x 6.3 inches
Item Weight	5.5 pounds
Manufacturer	Allied Telesyn International
ASIN	B087685KZT
Item Model Number	AT-X530L-52GTX-50
Date First Available	May 17, 2022
Ports	48 x 10/100/1000BASE-T, 4 x 1G/10G SFP+
Management	Managed (Web GUI, CLI)
Mounting	Rack Mountable

10. Warranty and Support

Allied Telesis products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Allied Telesis website.
For technical assistance, product documentation, or to report an issue, please contact Allied Telesis support through their official channels:

- **Website:** www.alliedtelesis.com
- **Support Portal:** Refer to the website for regional support contact information and online resources.



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