

Allied Telesis AT-AR1050V

AT-AR1050V Router User Manual

Model: AT-AR1050V (3934R) | Brand: Allied Telesis

1. INTRODUCTION

The Allied Telesis AT-AR1050V (RoHS compliant) is a basic VPN access router designed for Small Office/Home Office (SOHO) and small branch office environments. This router offers excellent cost performance and supports robust encryption algorithms, including AES-compliant VPN (IPsec) functions. It is also compatible with next-generation internet connection services such as "IPv4 over IPv6," enabling the establishment of a secure and efficient internet VPN environment with minimal investment. This manual provides essential information for setting up, operating, and maintaining your AT-AR1050V router.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating this device. Failure to do so may result in injury, damage to the device, or property damage.

- Ensure the device is placed on a stable, flat surface away from direct sunlight, heat sources, and moisture.
- Do not block ventilation openings. Proper airflow is essential to prevent overheating.
- Use only the power adapter supplied with the device. Using an incorrect adapter may cause damage or fire.
- Do not open the device casing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Keep the device away from children and pets.
- Disconnect power during electrical storms or when unused for long periods.

3. SETUP

3.1 Package Contents

Before proceeding, verify that all items are present in the package:

- AT-AR1050V Router Unit
- Power Adapter
- Quick Start Guide (if included)
- Ethernet Cable (if included)

3.2 Physical Connection

Follow these steps to connect your router:

1. **Connect to Power:** Plug the power adapter into the router's power input port and then into a power outlet.
2. **Connect to Internet (WAN):** Connect one end of an Ethernet cable to your modem or internet service provider's (ISP) device, and the other end to the WAN port (often labeled "WAN" or "Internet") on the AT-AR1050V router.
3. **Connect to Local Network (LAN):** Connect your computer or network switch to any of the LAN ports on the router using an Ethernet cable.
4. **Power On:** Press the power button (if available) or ensure the router powers on automatically. Wait for the indicator lights to stabilize.



Figure 1: Front view of the AT-AR1050V Router, showing the Ethernet ports, indicator lights, and USB port.

3.3 Initial Configuration

The AT-AR1050V router typically requires initial configuration via a serial console connection or a web-based graphical user interface (GUI). For detailed instructions on accessing the configuration interface and performing initial setup, please refer to the comprehensive user guide available on the Allied Telesis official website. Basic setup often involves:

- Setting up WAN connection parameters (e.g., PPPoE, DHCP, Static IP).
- Configuring LAN IP address and DHCP server settings.
- Changing default login credentials for security.

4. OPERATING

4.1 Basic Network Functions

Once configured, the router will manage network traffic between your local network and the internet. Key operational aspects include:

- **Routing:** Directing data packets between connected devices and the internet.
- **Firewall:** Protecting your network from unauthorized access and malicious attacks.
- **DHCP Server:** Automatically assigning IP addresses to devices on your local network.

4.2 VPN (IPsec) Functionality

The AT-AR1050V supports IPsec VPN, allowing for secure, encrypted communication over public networks. This is ideal for connecting remote offices or enabling secure remote access for employees. Configuration involves:

- Defining VPN tunnels and peer settings.
- Setting up encryption and authentication methods (e.g., AES, IKEv1/v2).
- Configuring network policies for VPN traffic.

4.3 IPv4 over IPv6 Support

This router supports IPv4 over IPv6, a technology that allows IPv4 traffic to be encapsulated and transmitted over an IPv6 network. This feature is crucial for compatibility with modern internet service providers transitioning to IPv6 while still supporting legacy IPv4 services. Consult your ISP for specific configuration details related to IPv4 over IPv6.

5. MAINTENANCE

5.1 Firmware Updates

Regularly check the Allied Telesis official website for firmware updates. Firmware updates often include performance improvements, bug fixes, and security enhancements. Follow the instructions provided with the firmware update package carefully to avoid damaging the device.

5.2 Cleaning and Environmental Care

- Keep the router clean by gently wiping it with a dry, soft cloth. Do not use liquid cleaners or aerosols.
- Ensure the router's ventilation holes are clear of dust and obstructions to maintain proper cooling.
- Operate the device within its specified temperature and humidity ranges.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your AT-AR1050V router.

Problem	Possible Cause	Solution
No Power / Device Not Turning On	Power adapter not connected; Power outlet issue; Faulty adapter.	Check power connections; Try a different outlet; Ensure correct power adapter is used.
No Internet Connection	WAN cable disconnected; ISP issue; Incorrect WAN settings; Modem issue.	Verify WAN cable connection; Contact your ISP; Check router's WAN configuration; Restart modem and router.
Devices Cannot Connect to LAN	LAN cable disconnected; DHCP server off; Incorrect IP settings on device.	Check LAN cable connections; Verify DHCP server status in router settings; Ensure devices are set to obtain IP automatically.
VPN Tunnel Not Establishing	Incorrect VPN configuration; Firewall blocking; Network connectivity issues.	Double-check all VPN parameters (IPs, keys, algorithms); Temporarily disable firewalls for testing; Ensure basic network connectivity.

If the problem persists, consult the full user manual on the Allied Telesis website or contact technical support.

7. SPECIFICATIONS

Brand	Allied Telesis
Manufacturer	Allied Telesis
Model Number	3934R (AT-AR1050V)
Color	Gray
Form Factor	Desktop
Item Weight	1.86 Kilograms
Package Dimensions	26.4 x 25.4 x 11 cm
ASIN	B07SQDFPHK

First Available Date	June 7, 2019
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8. WARRANTY AND SUPPORT

Allied Telesis products are designed for reliability and performance. For information regarding the warranty period and terms for your AT-AR1050V router, please refer to the warranty card included with your product or visit the official Allied Telesis website. For technical support, product documentation, and frequently asked questions, please visit the Allied Telesis support portal. You can typically find contact information for customer service and technical assistance on their official website:

Allied Telesis Official Website: www.alliedtelesis.com

When contacting support, please have your product model number (AT-AR1050V or 3934R) and serial number ready.

