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> [MOXA AWK-1137C-US-T 802.11n Wireless AP Client User Manual](#)

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MOXA AWK-1137C-US-T 802.11n Wireless AP Client User Manual

Model: AWK-1137C-US-T

1. INTRODUCTION

This manual provides essential information for the installation, configuration, operation, and maintenance of the MOXA AWK-1137C-US-T 802.11n Wireless AP Client. This device is designed for industrial wireless applications, offering reliable 802.11n connectivity in challenging environments with a wide operating temperature range.

2. SAFETY INFORMATION

- Always disconnect power before cleaning or servicing the device.
- Ensure proper grounding to prevent electrical hazards.
- Operate the device within the specified temperature and humidity ranges.
- Do not expose the device to moisture or extreme temperatures.
- Only qualified personnel should perform installation and maintenance.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- MOXA AWK-1137C-US-T Wireless AP Client unit
- Quick Installation Guide
- Documentation CD (or link to online resources)
- Mounting kit (if applicable)
- Power adapter or terminal block (if applicable)

If any items are missing or damaged, please contact your vendor immediately.

4. HARDWARE OVERVIEW

The AWK-1137C-US-T features robust industrial design. Key components typically include:

- **Ethernet Ports:** For wired network connections.
- **Antenna Connectors:** For external antennas to optimize wireless signal.
- **Power Input:** Terminal block for DC power input.
- **LED Indicators:** Provide status information for power, WLAN, and Ethernet activity.
- **Reset Button:** For restoring factory default settings.



Figure 1: MOXA AWK-1137C-US-T Wireless AP Client. This image shows the compact industrial design of the device, typically featuring antenna ports, Ethernet connections, and power input.

5. SETUP

5.1 Mounting

The AWK-1137C-US-T supports DIN-rail mounting. Attach the DIN-rail kit to the device and snap it onto a standard DIN-rail. Ensure the device is securely fastened to prevent vibration or accidental dislodgement.

5.2 Power Connection

1. Connect a suitable DC power source (e.g., 12-48 VDC) to the device's power input terminal block.
2. Ensure correct polarity (+ and -) as indicated on the device.
3. Tighten the screws on the terminal block to secure the power wires.

5.3 Network Connection

1. Connect an Ethernet cable from your network switch or router to the Ethernet port on the AWK-1137C-US-T.
2. Attach appropriate antennas to the antenna connectors. Ensure they are securely tightened.

5.4 Initial Configuration

To access the device's web-based management interface:

1. Connect a computer directly to the device's Ethernet port or ensure it is on the same network

segment.

2. Configure your computer's IP address to be in the same subnet as the device's default IP address (refer to the Quick Installation Guide for the default IP).
3. Open a web browser and enter the device's default IP address.
4. Log in using the default username and password (refer to the Quick Installation Guide).
5. Change the default password immediately for security.

6. OPERATING

6.1 Operating Modes

The AWK-1137C-US-T can operate in various modes, including Access Point (AP) and Client mode. Select the appropriate mode based on your network requirements.

- **Access Point (AP) Mode:** The device acts as a central hub for wireless clients to connect.
- **Client Mode:** The device connects to an existing Access Point, extending wired network connectivity wirelessly.

6.2 Wireless Settings

Configure the following wireless parameters via the web interface:

- **SSID:** The name of your wireless network.
- **Channel:** Select an appropriate wireless channel to avoid interference.
- **Band:** Configure for 2.4 GHz or 5 GHz operation, depending on the model and environment.
- **Transmit Power:** Adjust the output power for optimal coverage and compliance.

6.3 Security Settings

Implement strong wireless security to protect your network:

- **Encryption:** Use WPA2/WPA3-PSK or Enterprise for robust security.
- **Password/Passphrase:** Choose a strong, unique password.
- **MAC Address Filtering:** Optionally restrict access to specific devices.

7. MAINTENANCE

7.1 Firmware Updates

Regularly check the MOXA website for the latest firmware updates. Firmware updates can provide new features, performance improvements, and security patches. Follow the instructions provided with the firmware package for a safe update process.

7.2 Cleaning

Clean the device periodically with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure the device is powered off before cleaning.

7.3 Environmental Considerations

Ensure the operating environment remains within the specified temperature and humidity limits (-40 to 75°C). Avoid placing the device near heat sources or in direct sunlight.

8. TROUBLESHOOTING

8.1 No Power

- Check the power cable connection and ensure the power source is active.
- Verify the power supply voltage is within the device's specified range.
- Inspect the power input terminal block for loose connections.

8.2 No Network Connection

- Check Ethernet cable connections and ensure they are properly seated.
- Verify that the network switch or router is functioning correctly.
- For wireless connections, ensure the SSID, security settings, and channel match the connected AP/client.
- Check the LED indicators for network activity.

8.3 Slow Wireless Speed

- Ensure antennas are properly connected and positioned for optimal signal.
- Check for sources of interference (e.g., other wireless devices, microwave ovens).
- Adjust the wireless channel to a less congested one.
- Verify that the device is operating in 802.11n mode and not a slower standard.

8.4 Resetting to Factory Defaults

If configuration issues persist, you may need to reset the device to its factory default settings. Locate the reset button (often recessed) and press and hold it for approximately 5-10 seconds while the device is powered on. The device will reboot with default settings.

9. SPECIFICATIONS

Feature	Specification
Model Number	AWK-1137C-US-T
Wireless Standard	802.11n
Operating Band	US Band
Operating Temperature	-40 to 75°C
Package Dimensions	7.87 x 6.57 x 1.97 inches
Item Weight	1.15 pounds
Manufacturer	MOXA
Date First Available	April 30, 2018

10. WARRANTY AND SUPPORT

10.1 Warranty Information

MOXA products typically come with a standard warranty. For detailed warranty terms and conditions, please refer to the official MOXA website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

10.2 Technical Support

For technical assistance, product documentation, or driver downloads, please visit the official MOXA support website. You can also contact MOXA's customer support team directly through the contact information provided on their website.

This manual is subject to change without notice. Please refer to the manufacturer's website for the latest version.