

## ikasus AUTO-YQ-PL-QJ1019X

# ikasus Android Auto Retrofit with Wireless Carplay Instruction Manual

Model: AUTO-YQ-PL-QJ1019X

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of the ikasus Android Auto Retrofit module with Wireless Carplay. This system is designed to integrate Android Auto and Apple Carplay functionalities into compatible BMW vehicles equipped with the NBT infotainment system. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

**Compatibility:** This module is compatible with BMW F07, F10, F15, F20, F25, F30, F80 series vehicles that feature the NBT system.

## 2. PRODUCT OVERVIEW AND COMPONENTS

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The ikasus retrofit kit includes the main interface module and various cables required for integration with your vehicle's existing NBT system. Familiarize yourself with all components before beginning installation.



**Figure 2.1:** Main module and accessory cables. The module features ports for CAN, Power, USB, Video, Toggle Switch, and LVDS In/Out. Accessories include a power cable, video output cable, USB cable, microphone, and WiFi antenna.

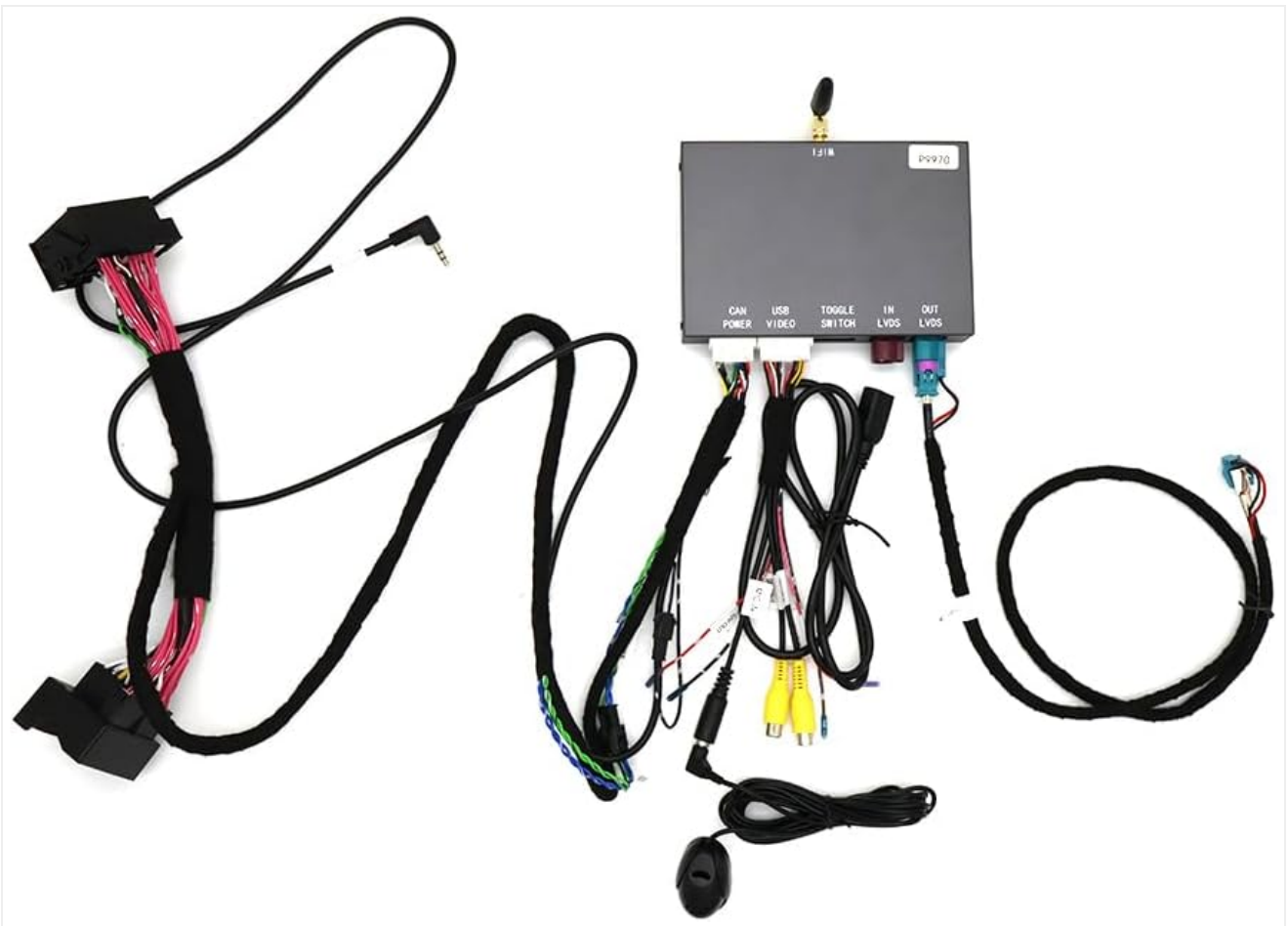


Figure 2.2: Complete kit contents, including the main module, power harness, LVDS cables, USB cable, microphone, and WiFi antenna.

## 2.1 Main Module Ports

- **CAN:** Connection for CAN bus communication.
- **POWER:** Power input connection.
- **USB:** USB port for data transfer or updates.
- **VIDEO:** Video input/output port.
- **TOGGLE SWITCH:** Port for an external toggle switch (if included/required).
- **IN LVDS:** Input for the vehicle's original LVDS display signal.
- **OUT LVDS:** Output for the modified LVDS display signal to the vehicle's screen.
- **WIFI:** Connection point for the external WiFi antenna.



Figure 2.3: Rear panel of the module, highlighting the CAN, Power, USB, Video ports, and the DIP switch bank for configuration.

## 3. SETUP AND INSTALLATION

Installation of this retrofit module involves working with your vehicle's electrical and infotainment systems. **Professional**

**installation is highly recommended** to ensure correct wiring and avoid damage to the vehicle or the module.

### 3.1 Pre-Installation Checklist

- Ensure the vehicle's ignition is off and the battery is disconnected before starting.
- Verify all components listed in Section 2 are present.
- Have necessary tools available (e.g., trim removal tools, screwdrivers, wire strippers/crimpers if needed).
- Identify the location of your vehicle's NBT head unit and display screen.

### 3.2 General Installation Steps (Consult a professional for specific vehicle instructions)

1. **Access the Head Unit:** Carefully remove the necessary trim panels and components to gain access to the rear of your BMW's NBT head unit.
2. **Disconnect Original Cables:** Disconnect the main power harness and the LVDS cable from the NBT head unit.
3. **Connect Power Harness:** Connect the provided power harness from the retrofit module in-line with the vehicle's original power harness and the NBT head unit.
4. **Connect LVDS Cables:** Connect the vehicle's original LVDS cable to the "IN LVDS" port on the retrofit module. Connect the provided "OUT LVDS" cable from the module to the NBT head unit's LVDS input.
5. **Connect USB and Microphone:** Route the USB cable and microphone to desired locations within the cabin and connect them to the module.
6. **Connect WiFi Antenna:** Attach the WiFi antenna to the designated port on the module.
7. **DIP Switch Configuration:** Configure the DIP switches on the module according to your specific vehicle model and screen resolution. Refer to the separate DIP switch configuration guide (if provided) or consult the manufacturer's support. *Incorrect DIP switch settings can lead to display issues.*
8. **Secure the Module:** Find a suitable, secure location behind the dashboard to mount the retrofit module, ensuring it does not interfere with other components or wiring.
9. **Reconnect Battery and Test:** Reconnect the vehicle's battery. Turn on the ignition and test the functionality of the NBT system and the newly installed retrofit module.
10. **Reassemble:** Once functionality is confirmed, carefully reassemble all trim panels and components.

## 4. OPERATING INSTRUCTIONS

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After successful installation, the ikasus module allows you to access Wireless Carplay and Android Auto functionalities on your BMW's NBT screen.

# Wireless CarPlay & Android Auto

Fit For BMW 5 Series F07 F10 F11 F18 7 Series F01 F02 F03 With NBT System



• APPLE CARPLAY



• ANDROID AUTO



Figure 4.1: Example of Carplay and Android Auto interfaces displayed on a BMW NBT screen.

## 4.1 Switching Between Original NBT and Retrofit System

Typically, you can switch between the original NBT interface and the Carplay/Android Auto interface by long-pressing a specific button on your iDrive controller (e.g., MENU or BACK button). Refer to the specific instructions provided with your module or consult the manufacturer's support for the exact button combination.

## 4.2 Connecting to Wireless Carplay / Android Auto

1. **Enable Bluetooth and Wi-Fi:** On your smartphone, ensure both Bluetooth and Wi-Fi are enabled.
2. **Pair Bluetooth:** On the retrofit module's interface (displayed on your car screen), navigate to the Bluetooth settings. Search for and pair with your smartphone.
3. **Automatic Connection:** Once Bluetooth is paired, the system should automatically prompt you to connect to Wireless Carplay or Android Auto via Wi-Fi. Accept the connection on your phone.
4. **USB Connection (Optional):** For wired Carplay/Android Auto, connect your smartphone to the module's USB port using a high-quality USB cable.

## 4.3 Using Carplay / Android Auto

- Navigate through the Carplay or Android Auto interface using your vehicle's iDrive controller.

- Access navigation apps, music streaming, messaging, and voice assistants (Siri/Google Assistant) directly from your car's screen.
- The integrated microphone allows for hands-free calls and voice commands.

## 5. MAINTENANCE

The ikasus Android Auto Retrofit module is designed for minimal maintenance. Follow these guidelines to ensure longevity:

- **Keep Dry:** Ensure the module and its connections remain dry and free from moisture.
- **Cleanliness:** Keep the area around the module free from dust and debris. Do not use harsh chemicals to clean the module itself.
- **Software Updates:** Periodically check the manufacturer's website for any available firmware updates for the module. Updates can improve performance and add new features. Follow the provided instructions carefully for any update procedures.
- **Cable Integrity:** Periodically inspect all connected cables for any signs of wear or damage.

## 6. TROUBLESHOOTING

If you encounter issues with your ikasus Android Auto Retrofit module, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No display/Black screen after installation.	Incorrect LVDS connections, incorrect DIP switch settings, power issue.	<ul style="list-style-type: none"> <li>◦ Verify all LVDS cables are securely connected to the correct IN/OUT ports.</li> <li>◦ Check DIP switch settings against your vehicle's specifications.</li> <li>◦ Ensure the power harness is correctly connected and receiving power.</li> </ul>
Cannot connect to Wireless Carplay/Android Auto.	Bluetooth/Wi-Fi issues, phone settings, module not in correct mode.	<ul style="list-style-type: none"> <li>◦ Ensure Bluetooth and Wi-Fi are enabled on your smartphone.</li> <li>◦ Forget previous Bluetooth connections on your phone and re-pair.</li> <li>◦ Restart your smartphone and the vehicle's infotainment system.</li> <li>◦ Ensure the module is switched to the Carplay/Android Auto interface.</li> </ul>
Audio issues (no sound, distorted sound).	Incorrect AUX input selection, wiring issues.	<ul style="list-style-type: none"> <li>◦ Ensure your vehicle's NBT system is set to the correct AUX audio input.</li> <li>◦ Check all audio wiring connections.</li> </ul>
iDrive controller not working in Carplay/Android Auto.	CAN bus connection issue, module fault.	<ul style="list-style-type: none"> <li>◦ Verify the CAN bus connection to the module.</li> <li>◦ Restart the system.</li> </ul>

If problems persist after attempting these solutions, please contact ikasus customer support for further assistance.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	AUTO-YQ-PL-QJ1019X
Compatibility	BMW F07, F10, F15, F20, F25, F30, F80 with NBT System
Connectivity	Wireless Carplay, Wireless Android Auto, USB Carplay/Android Auto
Input/Output	LVDS In/Out, USB, Video, CAN, Power
Wireless Standard	Wi-Fi, Bluetooth
Manufacturer	ikasus

## 8. WARRANTY AND SUPPORT

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For warranty information, please refer to the purchase documentation or contact your retailer. For technical support, installation guidance, or troubleshooting assistance beyond this manual, please contact ikasus customer service. Provide your product model number (AUTO-YQ-PL-QJ1019X) and a detailed description of your issue for efficient support.