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> Radio Modification Module, SI4732 Chip V2 FPC Version for Quansheng K6 K5, Single Dual Antennae

Yoidesu Yoidesugam3t1q8dv

Radio Modification Module User Manual

Model: Yoidesugam3t1q8dv | Brand: Yoidesu

1. INTRODUCTION

This manual provides detailed instructions for the Yoidesu SI4732 Chip V2 FPC Version Radio Modification Module, designed for enhancing Quansheng K6 and K5 radios. This module is engineered to improve audio quality, signal filtering, and overall reception capabilities for both single and dual antenna configurations.

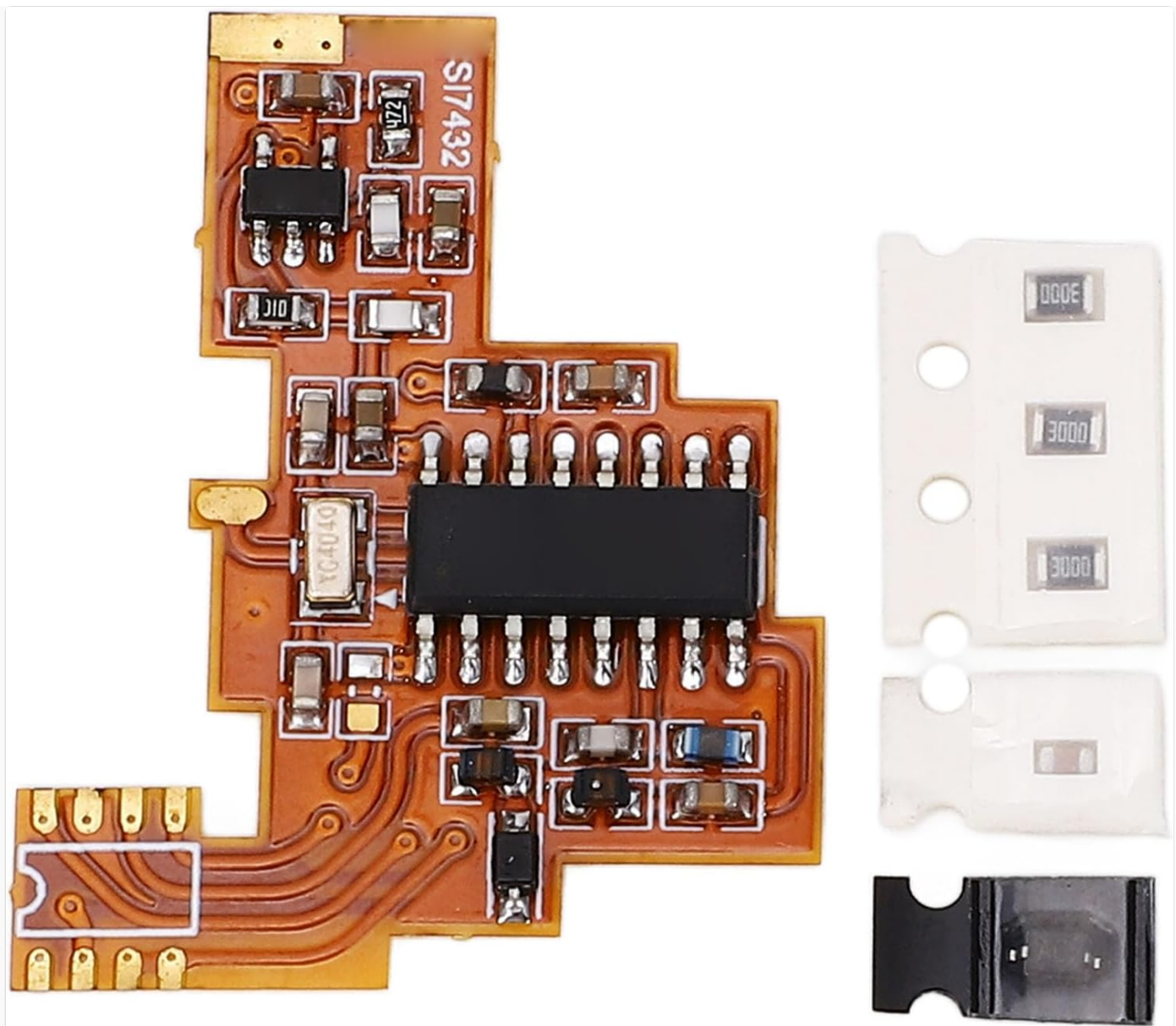


Image 1.1: The Yoidesu SI4732 Radio Modification Module, showing the main circuit board and the three accompanying resistors.

Key enhancements include:

- **Optimized Filtering:** Redesigned FM and HF bandpass filters for superior signal filtering and reception quality across various frequency bands.
- **Enhanced Reliability:** Utilizes a 0.12mm thick FPC soft board to ensure safety, prevent short circuits, and support hassle-free installation without compromising original machine performance.
- **Improved Sound Quality:** An added sound amplifier effectively addresses low volume issues in SSB (Single Sideband) reception, significantly enhancing overall audio clarity.
- **ESD Protection:** Integrated ESD (Electrostatic Discharge) tubes provide robust protection against electrostatic discharge and strong signals when transmitting with dual antennae in the UV band.
- **Enhanced Reception:** This modified module enables HF shortwave full band reception for both single and dual antenna setups.

2. SPECIFICATIONS

Feature	Detail
Item Type	Radio Modification Module

Material	PCB (Printed Circuit Board)
Chip	SI4732
Application	For Quansheng UV K6 and UV K5 Radios (Single and Dual Antennae versions)
Item Weight	0.634 ounces (approx. 18g)
Package Dimensions	3.9 x 1.98 x 1.85 inches
Model Number	Yoidesugam3t1q8dv
Manufacturer	Yoidesu
Frequency Range	HF band (Shortwave full band reception enabled)
Tuner Technology	Digital
Water Resistance Level	Not Water Resistant
Connectivity Protocol	P25, DMR, Analog FM (enhanced)

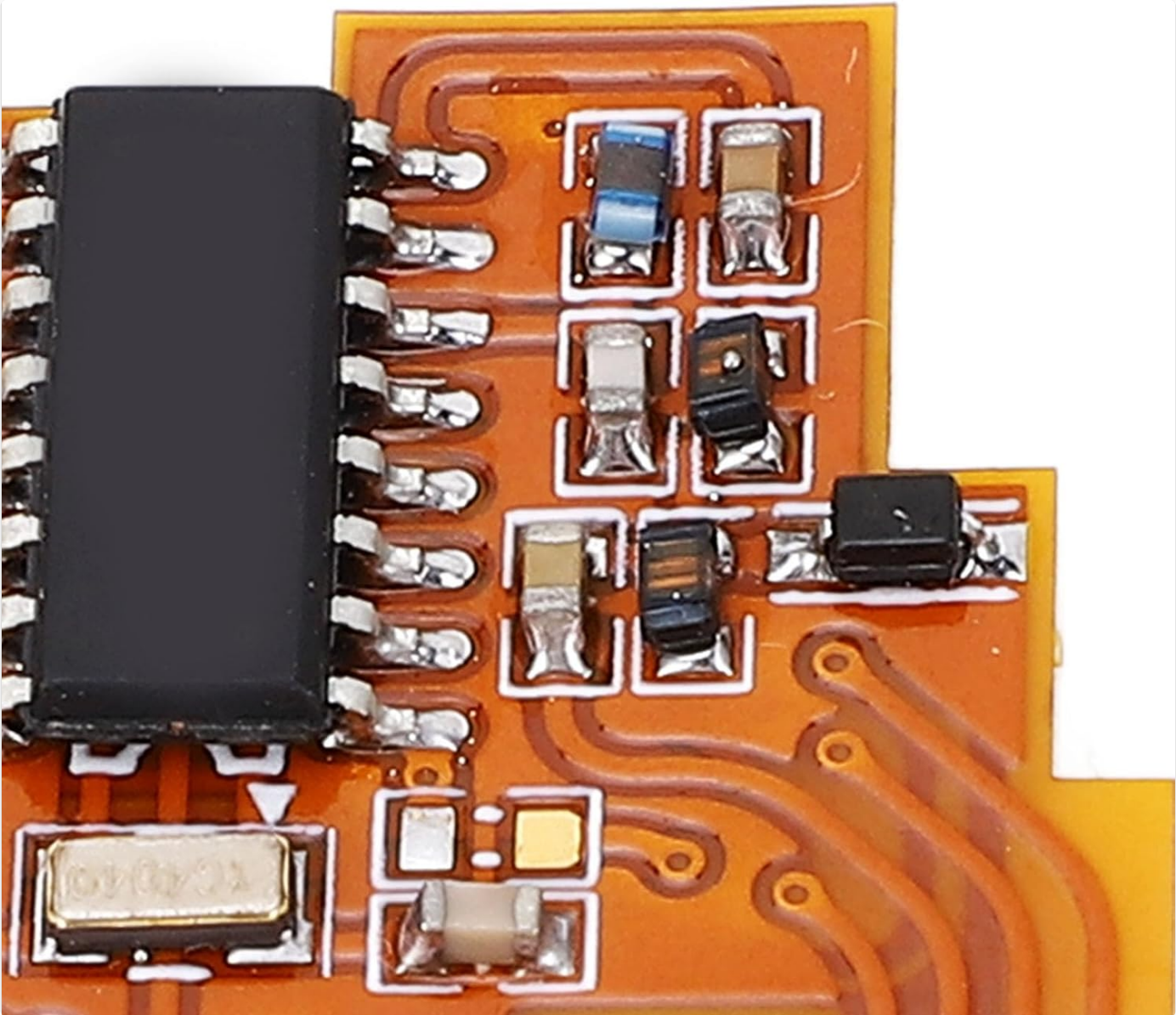


Image 2.1: A detailed view of the SI4732 chip and other surface-mount components on the modification module, highlighting the intricate design.

3. PACKAGE CONTENTS

The package for the Radio Modification Module includes the following items:

- 1 x Radio Modification Module (SI4732 Chip V2 FPC Version)
- 3 x Resistors

4. SETUP AND INSTALLATION

The Yoidesu Radio Modification Module is designed for internal installation within compatible Quansheng K6 and K5 radios. Installation requires careful handling of the radio's internal components. It is recommended that this procedure be performed by individuals with experience in electronics or radio modification.

Installation Steps:

1. **Prepare the Radio:** Ensure your Quansheng K6 or K5 radio is powered off and disconnected from any power sources. Carefully open the radio casing to access its internal circuit board.
2. **Locate the Installation Area:** Identify the designated area on the radio's main circuit board where the modification module is to be integrated. This typically involves a flexible flat cable (FPC) connection point.
3. **Connect the Module:** Gently align the FPC connector of the modification module with the corresponding port on the radio's circuit board. Ensure a secure and proper connection. The module's flexible design allows for a precise fit.
4. **Integrate Components:** If included, carefully solder or connect the three resistors to their designated points on the radio's board or the module, as indicated by the radio's specific modification guide (not supplied with this module).
5. **Secure the Module:** Position the module within the radio casing, ensuring it does not interfere with other components or the casing closure. The 0.12mm thick FPC soft board is designed for a snug fit.
6. **Reassemble the Radio:** Carefully close the radio casing, ensuring all screws are tightened and the casing is properly sealed.

Enhanced Bandpass Filters

2 way radio modification module, FM and HF bandpass filters have been redesigned to optimize signal filtering and reception quality in different frequency bands.

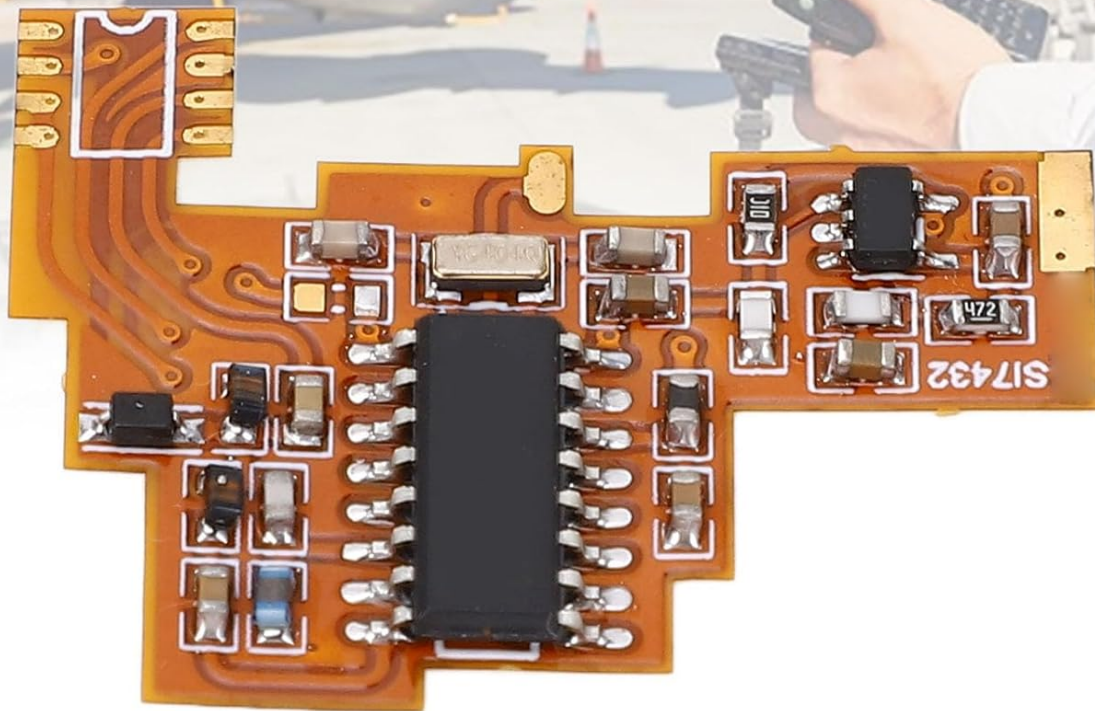


Image 4.1: The modification module shown alongside the internal components of a compatible radio, illustrating the intended installation location.

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Video 4.1: An official video demonstrating the installation process of the Radio Modification Module into a compatible two-way radio. This video provides a visual guide to the steps involved in integrating the FPC board.

5. OPERATING THE MODULE

Once the Radio Modification Module is correctly installed, its functions are integrated directly into your Quansheng K6 or K5 radio. There are no separate controls for the module itself; its enhancements operate automatically.

- **Enhanced Reception:** The module automatically improves HF shortwave full band reception.
- **Improved Audio:** The integrated sound amplifier will provide clearer and louder audio, particularly for SSB signals.
- **Optimized Filtering:** The redesigned bandpass filters work in the background to provide cleaner signal reception across FM and HF bands.

Continue to operate your radio as normal, and you will experience the benefits of the module's enhancements.

6. MAINTENANCE

The Yoidesu Radio Modification Module is designed for long-term reliability and requires minimal maintenance once installed. As an internal component, it is protected by the radio's casing.

- **Environmental Protection:** Keep your radio, and thus the module, away from excessive moisture, dust, and extreme temperatures. The module is not water-resistant.
- **Avoid Physical Shock:** Protect your radio from drops or impacts, which could damage the internal components, including the module.
- **Cleaning:** If the radio casing is opened for any reason, ensure the internal area is clean and free of debris before reassembly. Do not use liquid cleaners directly on the module.

7. TROUBLESHOOTING

If you encounter issues after installing the Radio Modification Module, consider the following troubleshooting steps:

- **No Improvement in Audio/Reception:**
 - Verify that the module is correctly seated in its FPC connector. A loose connection can prevent proper function.
 - Ensure any additional resistors or components required for the specific radio model's modification are correctly installed and soldered.
 - Confirm that your radio model (Quansheng K6 or K5) is fully compatible with this module.
- **Radio Not Functioning After Installation:**
 - Immediately power off the radio.
 - Re-open the casing and carefully inspect all connections for shorts or incorrect placement.
 - Ensure no wires or components are pinched or damaged during reassembly.
 - If possible, temporarily remove the module and test the radio's original functionality to isolate the issue.
- **Increased Static or Interference:**
 - While the module includes ESD protection, ensure proper grounding within the radio if applicable.
 - Check for external sources of interference in your operating environment.

If problems persist after attempting these steps, it is recommended to consult with a qualified electronics technician or contact Yoidesu customer support.

8. WARRANTY AND SUPPORT

For specific warranty details regarding your Yoidesu Radio Modification Module, please refer to the purchase documentation or contact the seller directly. Warranty terms typically cover manufacturing defects.

Customer Support:

If you require technical assistance, have questions about installation, or need to report an issue, please contact Yoidesu customer support. You can typically find contact information on the product packaging, the seller's page on the platform where you purchased the item, or the official Yoidesu website.

When contacting support, please have your product model number (Yoidesugam3t1q8dv) and a detailed description of your issue ready.

Visit the [Yoidesu Store](#) for more information.

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