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Comimark LY466

Comimark GPD2846A TF Card MP3 Decoder Board 2W Amplifier Module User Manual

Model: LY466

1. Introduction

This user manual provides essential information for the proper setup, operation, and maintenance of your Comimark GPD2846A TF Card MP3 Decoder Board with an integrated 2W Amplifier Module. This module is designed for various electronic projects, including those based on Arduino, enabling easy integration of MP3 audio playback from a TF (MicroSD) card.

2. Safety Information

- Always ensure the power supply voltage is within the specified range (5V). Incorrect voltage can damage the module.
- Avoid short-circuiting the power pins or speaker outputs.
- Handle the module with care to prevent damage to electronic components.
- Do not expose the module to moisture, extreme temperatures, or static electricity.
- If you are unfamiliar with electronics, seek assistance from an experienced individual.

3. Product Overview

The GPD2846A module is a compact MP3 decoder board featuring a TF card slot and a 2W amplifier. It is designed for simple audio playback in embedded systems.



Figure 3.1: General view of the Comimark GPD2846A TF Card MP3 Decoder Board.

Key Features:

- Integrated MP3 decoder.
- Supports TF (MicroSD) cards.
- Built-in 2W mono amplifier.
- Simple control interface (typically auto-play or basic button control).
- Operating Voltage: 5V.

Module Components:

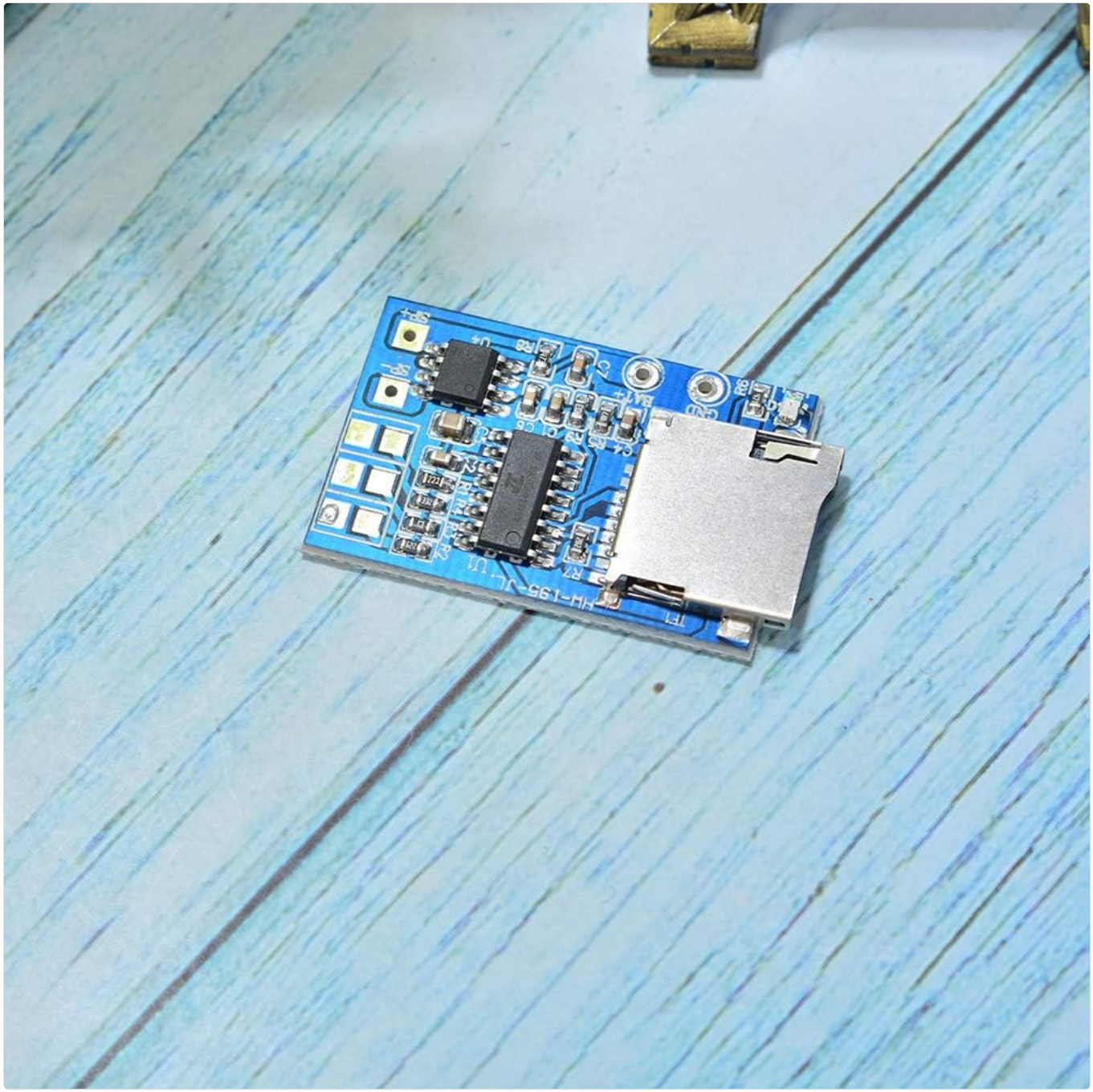


Figure 3.2: Close-up view showing the main IC, TF card slot, and various passive components on the board.

The board includes the GPD2846A main control chip, a TF card slot for storing MP3 files, and an amplifier circuit to drive a small speaker. Pin headers are provided for power input, speaker output, and potential control signals.

4. Setup

4.1 Preparing the TF Card

- Format a TF (MicroSD) card to FAT16 or FAT32 file system.
- Copy your MP3 audio files to the root directory of the TF card. For some modules, naming conventions like "0001.mp3", "0002.mp3" might be required for sequential playback, or files can be placed in a folder named "mp3". Refer to specific project requirements if using with a microcontroller.
- Insert the prepared TF card into the card slot on the module.

4.2 Wiring Connections

Identify the following pins on the module:

- **VCC:** Power input (5V DC).
- **GND:** Ground connection.
- **SPK+ / SPK-:** Speaker output terminals. Connect a 4Ω or 8Ω speaker (up to 2W).
- **IO Pins:** (If present) These pins are typically used for control signals from a microcontroller (e.g., Play/Pause, Next, Previous, Volume). The specific functionality depends on the GPD2846A chip's configuration and external circuitry.



Figure 4.1: Top-down view of the module, highlighting the TF card slot and pin headers for connections.

Connect the VCC pin to a 5V power source and the GND pin to the ground of your power supply. Connect your speaker to the SPK+ and SPK- terminals. Ensure correct polarity for the speaker if specified, though for simple audio output, it often doesn't matter for functionality, but can affect phase.

5. Operating Instructions

5.1 Basic Playback

- Once the TF card is inserted and the speaker is connected, apply 5V power to the VCC and GND pins.
- The module should automatically detect the TF card and begin playing the MP3 files. Playback order typically follows the

file system's order or numerical naming.

- Some versions of the GPD2846A module may have integrated buttons for Play/Pause, Next, Previous, or Volume control. If not, these functions would need to be implemented via external microcontroller control connected to the IO pins.

5.2 Advanced Control (with Microcontroller)

For projects requiring specific track selection, volume adjustment, or other interactive features, the module can be interfaced with a microcontroller (e.g., Arduino) via its IO pins. Consult the GPD2846A datasheet or relevant online resources for detailed communication protocols and example code for microcontroller integration.

6. Maintenance

- Keep the module clean and free from dust. Use a soft, dry brush if necessary.
- Ensure all connections are secure and free from corrosion.
- Periodically check the TF card for data integrity, especially if experiencing playback issues.
- Store the module in a dry, cool environment when not in use.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound from speaker.	Incorrect wiring; faulty speaker; no power; TF card not inserted or corrupted.	Check VCC/GND connections; verify speaker functionality; ensure 5V power; re-insert or reformat TF card.
TF card not recognized.	Incorrect formatting (not FAT16/FAT32); card not fully inserted; faulty card.	Ensure TF card is formatted to FAT16/FAT32; push card firmly into slot; try a different TF card.
Audio quality is poor or distorted.	Speaker impedance mismatch; power supply noise; damaged speaker.	Use a speaker with 4Ω or 8Ω impedance; ensure a stable 5V power supply; test with a different speaker.
Module does not power on.	No power supply; incorrect voltage; reversed polarity.	Verify 5V power supply connection; check for correct polarity (VCC to positive, GND to negative).

8. Specifications

- **Brand:** Comimark
- **Model:** LY466
- **Voltage:** 5 Volts
- **Output Power:** 2 Watts
- **Number of Channels:** 2 (typically used for mono output with a single speaker, the chip might support stereo internally or for line-out)
- **Mounting Type:** Surface Mount (refers to the components on the board)
- **Supported Media:** TF (MicroSD) Card
- **Supported Audio Format:** MP3
- **Dimensions:** Approximately 4.53 x 3.15 x 0.28 inches (Package dimensions, actual module is smaller)
- **Weight:** Approximately 0.01 Kilograms (Package weight)

9. Product Video Overview

Watch this video for a general overview of similar mini MP3 player modules, demonstrating their appearance and basic functionality. Note that specific features may vary slightly between models.

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Video 9.1: Overview of Mini MP3 Player Modules. This video provides a visual guide to the physical characteristics and potential applications of these types of audio modules.

10. Warranty and Support

For warranty information, technical support, or further assistance, please refer to the seller's contact information or the product listing page where this module was purchased. Keep your proof of purchase for any warranty claims.

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