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17ZQ3GDCW38Q6I63RX9HPK

Generic 32-LED VU Meter Audio Display Analyzer User Manual

Model: 17ZQ3GDCW38Q6I63RX9HPK

1. Introduction

This manual provides instructions for the Generic 32-LED VU Meter Audio Display Analyzer. This compact module is designed for DIY electronics projects, offering a visual representation of audio levels with its 32-segment LED display. It features adjustable display parameters and an Automatic Gain Control (AGC) mode for optimal performance across various audio input levels.

Key Features:

- **32-Segment LED Display:** Comprising 24 green and 8 red LEDs for clear level indication.
- **Adjustable Light Bar Function:** Control rise/fall speed, peak hold time, and fall speed.
- **Consistent Brightness:** Each LED has an independent current-limiting resistor.
- **Isolated Signal Input:** Prevents high-frequency interference from the microcontroller.
- **Standard and AGC Display Modes:** Adaptive AGC algorithm for wide-range input.
- **Brightness Adjustment:** Customizable display brightness.
- **Compact Design:** Small footprint for easy integration into projects.

2. Setup

2.1 Unpacking and Inspection

Carefully unpack the VU meter module. Verify that all components are present:

- 32-LED VU Meter Module (pre-soldered)
- 4-pin connection cable

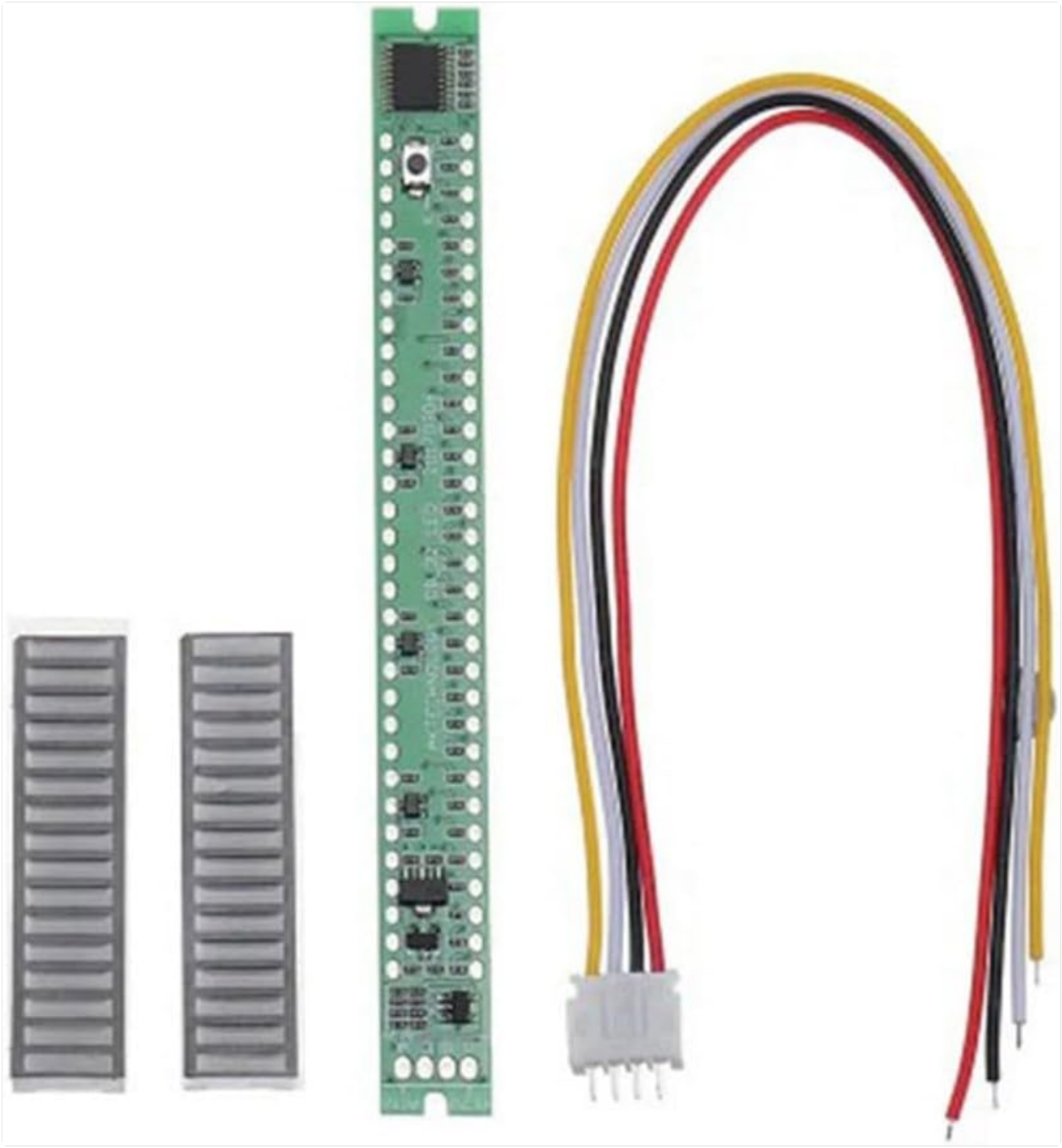


Figure 1: Unpacked components of the VU Meter module. Shown are the main circuit board, two LED display segments, and the connecting wire harness.

2.2 Power Connection

The module requires a DC power supply. Connect the 4-pin cable to the corresponding pins on the module and your power source. Ensure correct polarity.

- **Operating Voltage:** 7V-12V DC
- **Current:** 50mA or higher

Refer to the pin labels on the module for correct wiring (e.g., +12V, GND).

2.3 Audio Signal Input

Connect your audio signal source to the designated input pins on the module. The signal input is isolated to prevent interference.

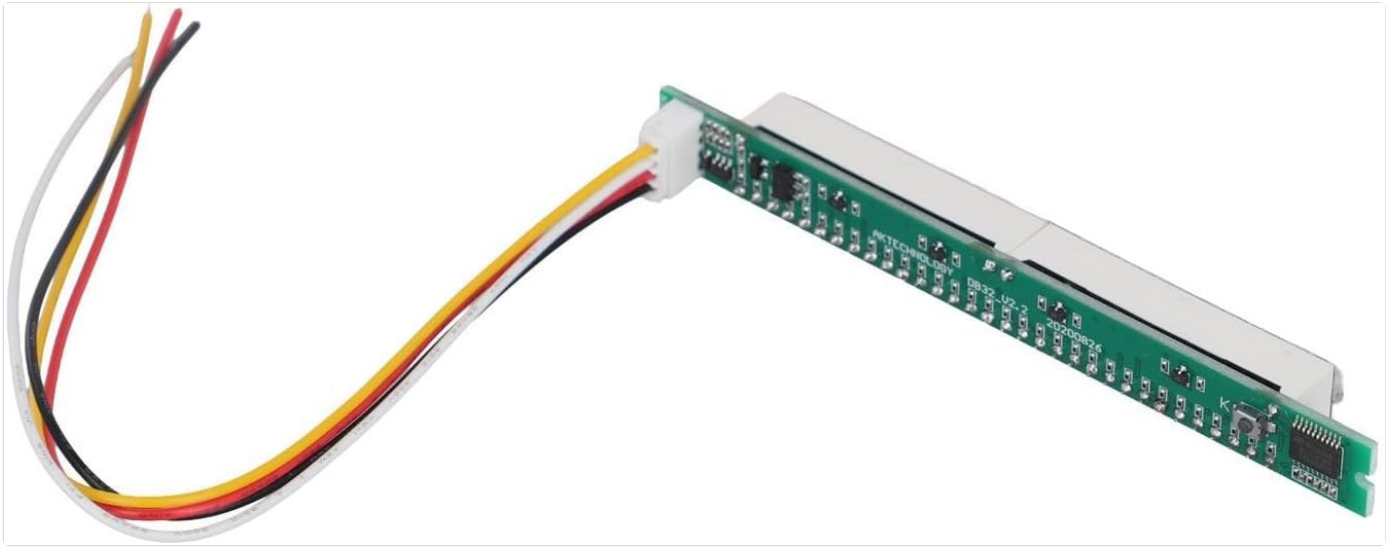


Figure 2: The 32-LED VU Meter module with its connected wiring, illustrating its compact form factor for integration.

3. Operating Instructions

The VU meter module is designed for straightforward operation, primarily through a single button for mode and setting adjustments.

3.1 Power On/Off

The module powers on automatically when connected to a suitable power source (7V-12V DC). Disconnect power to turn off.

3.2 Display Modes

The module supports two primary display modes:

- **Standard Display Mode:** Provides a direct visual representation of the audio signal level.
- **AGC (Automatic Gain Control) Mode:** Utilizes an adaptive algorithm to optimize the display range, ensuring clear visualization even with varying input signal strengths. This mode is recommended for dynamic audio sources.

Use the single control button to cycle through or select these modes. Specific button press sequences (short press, long press) will be detailed in the full product documentation if available.

3.3 Adjusting Display Parameters

The module allows for customization of the LED bar behavior:

- **Rise Speed:** How quickly the LED bars illuminate in response to increasing audio levels.
- **Fall Speed:** How quickly the LED bars dim after audio levels decrease.
- **Peak Hold Time:** The duration for which the highest illuminated LED segment remains lit to indicate peak levels.
- **Brightness Adjustment:** Control the overall intensity of the LED display.

These parameters are typically adjusted using the single control button. Consult the specific product documentation for detailed button press sequences to access and modify these settings.

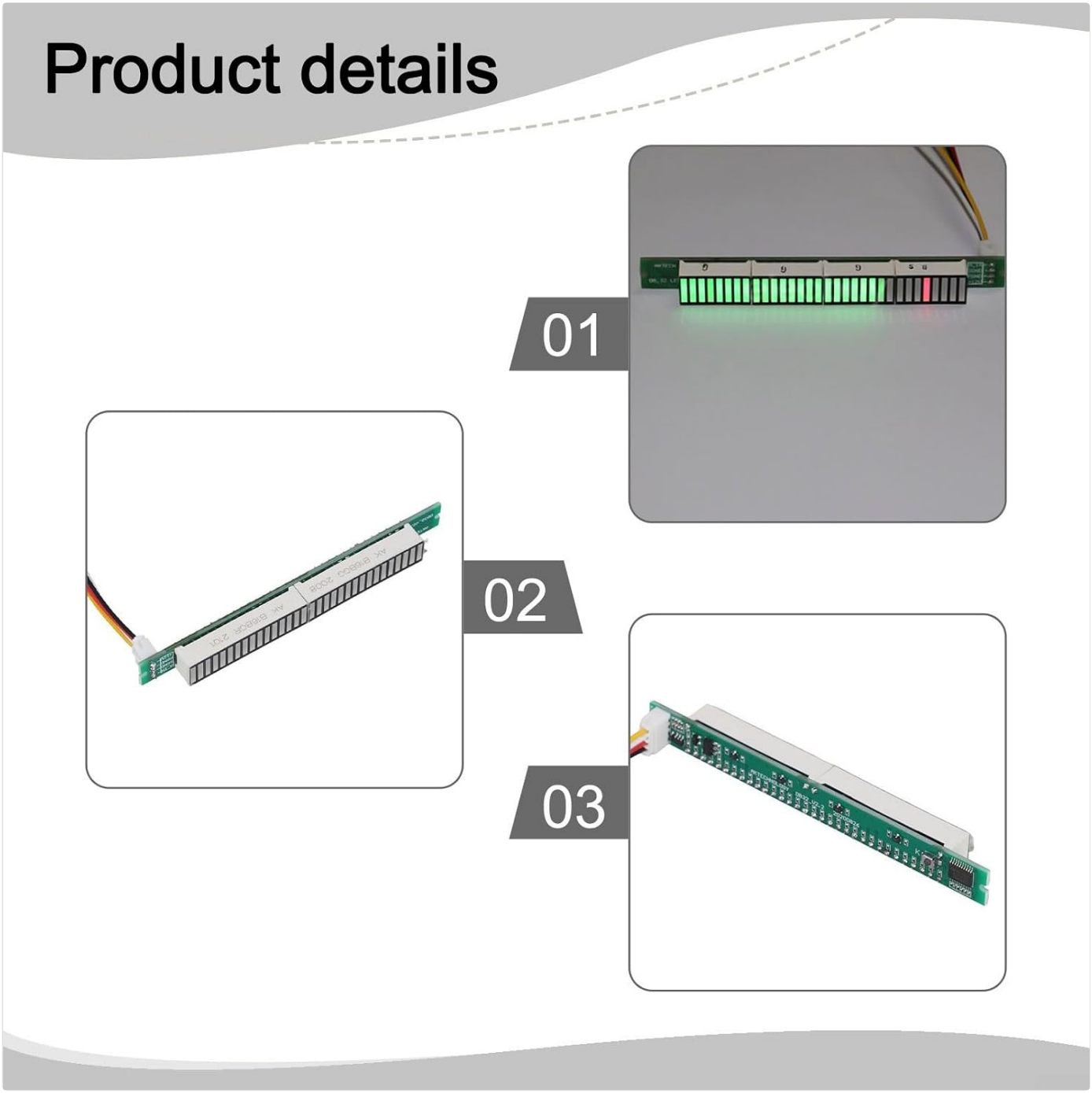


Figure 3: Product details showing the illuminated LED display, a side profile, and the reverse side of the circuit board.

4. Maintenance

The 32-LED VU Meter module is designed for durability and requires minimal maintenance.

- **Cleaning:** If necessary, gently wipe the module with a dry, soft cloth. Avoid using liquids or abrasive cleaners.
- **Environment:** Operate the module in a dry environment, away from excessive dust, moisture, and extreme temperatures.
- **Handling:** Handle the circuit board by its edges to avoid damaging components or creating static discharge.

5. Troubleshooting

If you encounter issues with your VU Meter module, consider the following troubleshooting steps:

- **No Display/No Power:**

- Verify that the power supply is connected correctly and providing the specified voltage (7V-12V DC).
- Check all wiring connections for looseness or incorrect polarity.

- **Incorrect Level Indication:**
  - Ensure the audio signal input is connected correctly.
  - Check the audio source for proper output levels.
  - If in AGC mode, try switching to standard display mode to see if the issue persists.
  - Adjust the brightness setting if the display appears too dim or too bright.
- **Flickering or Unstable Display:**
  - Ensure the power supply is stable and provides sufficient current (50mA or higher).
  - Check for any loose connections in the signal path.
  - Verify that the signal input is properly isolated from high-frequency noise.

If problems persist after following these steps, contact the seller or manufacturer for further assistance.

6. Specifications

Feature	Specification
Model Number	17ZQ3GDCW38Q6I63RX9HPK
Operating Voltage	7V-12V DC
Current Consumption	50mA or higher
LED Configuration	32 segments (24 Green + 8 Red)
Dimensions (L x W x H)	12 x 2 x 2 cm (approximately)
Display Modes	Standard, AGC (Automatic Gain Control)
Adjustable Parameters	Rise/Fall Speed, Peak Hold Time, Brightness
Signal Input	Isolated

7. Warranty and Support

Warranty information for this Generic product is not explicitly provided in the available documentation. For any warranty claims, technical support, or inquiries regarding the product, please contact the retailer or seller from whom you purchased the item.

Ensure you retain your proof of purchase for any support requests.

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