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## Cylewet CYT1082

# Cylewet CYT1082 8-Channel Bi-Directional Logic Level Converter User Manual

Model: CYT1082

## 1. INTRODUCTION

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The Cylewet CYT1082 is an 8-channel bi-directional logic level converter module designed to facilitate communication between devices operating at different voltage levels. This module enables seamless and safe signal transfer between high logic voltage (e.g., 5V) and low logic voltage (e.g., 3.3V) systems, making it suitable for various microcontroller projects, including those involving Arduino platforms.

## 2. PACKAGE CONTENTS

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Each package contains the following components:

- 5 × 8 Channel Logic Level Converter Bi-directional 3.3V to 5V TTL Shifter Module
- 5 × Single Row Pin Header (10 pins)

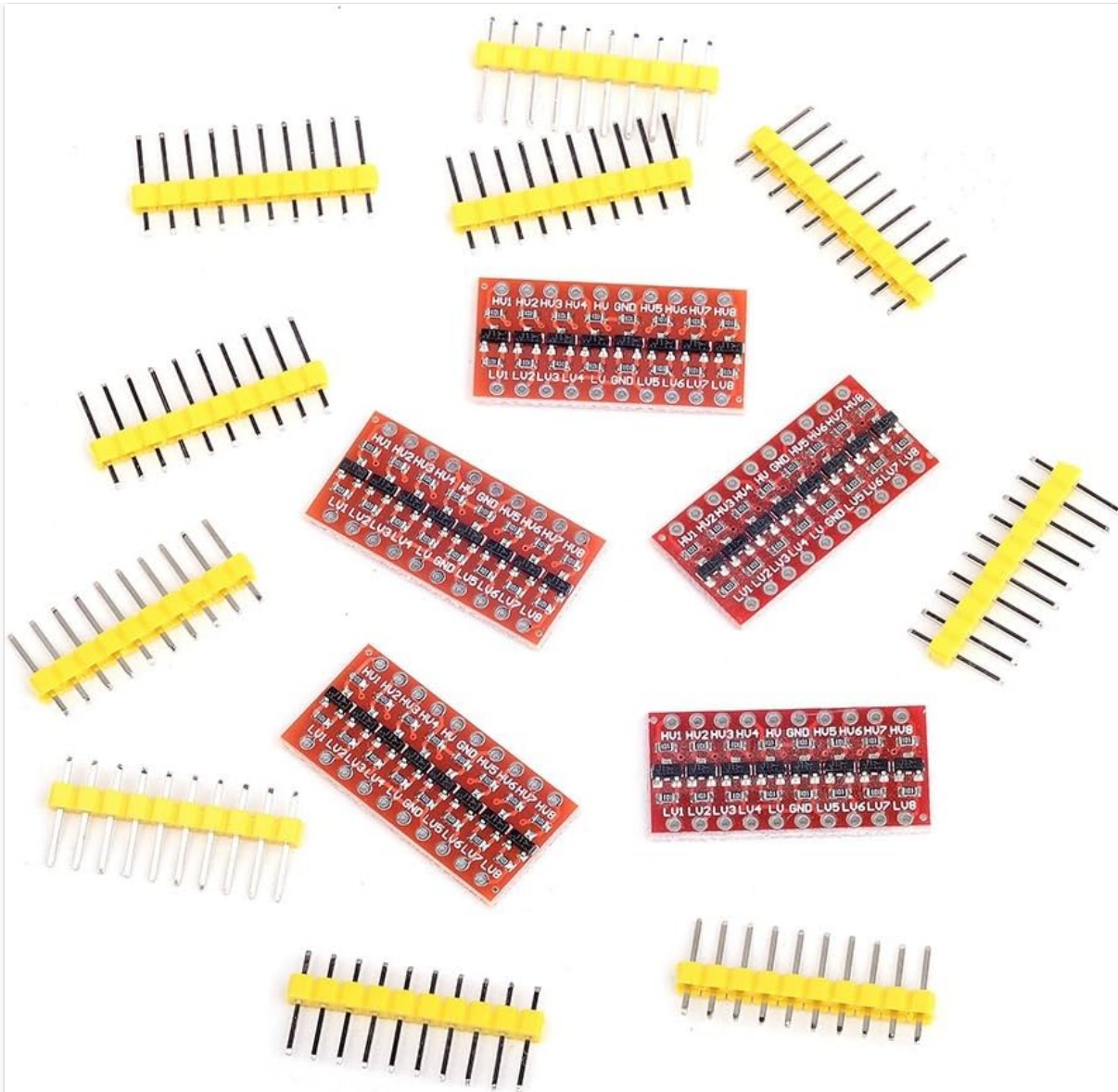


Image 2.1: Contents of the Cylewet CYT1082 package, showing five logic level converter modules and accompanying pin headers.

### 3. PRODUCT OVERVIEW

The CYT1082 module features 8 independent channels for voltage level translation. It is compact in size, measuring approximately  $4.1 \times 1.8$  cm ( $1.6 \times 0.7$  inches), making it suitable for space-constrained applications. The module is designed for bi-directional signal transfer, allowing data to flow in both directions between the high voltage (HV) and low voltage (LV) sides.

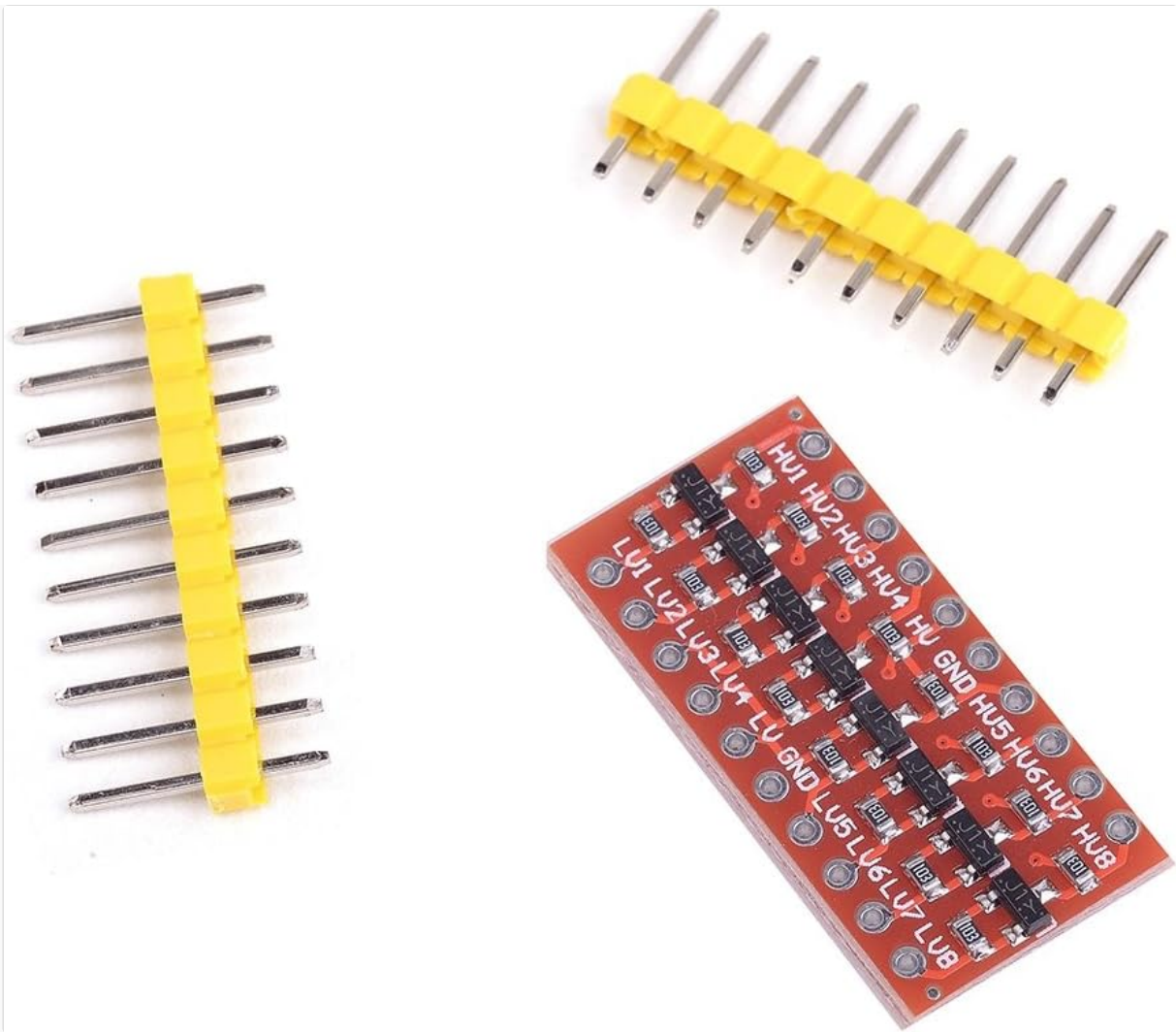


Image 3.1: A single Cylewet CYT1082 module with its pin headers, illustrating the compact design.

## 4. SETUP AND INSTALLATION

### 4.1 Pinout Description

The module has two sets of pins: one for the High Voltage (HV) side and one for the Low Voltage (LV) side. Each side includes power supply pins and 8 data channels.



Image 4.1: Detailed view of the CYT1082 module, highlighting the HV, LV, and GND pins, along with the 8 data channels (HU1-HU8 and LU1-LU8).

Pin Label	Description
<b>HV</b>	High Voltage supply input (e.g., 5V)
<b>LV</b>	Low Voltage supply input (e.g., 3.3V)
<b>GND</b>	Ground connection (common ground for both HV and LV systems)

Pin Label	Description
HU1-HU8	High Voltage side data channels (8 channels)
LU1-LU8	Low Voltage side data channels (8 channels)

## 4.2 Connection Instructions

1. **Connect Power:** Connect the high voltage power supply (e.g., 5V) to the **HV** pin. Connect the low voltage power supply (e.g., 3.3V) to the **LV** pin.
2. **Connect Ground:** Connect the common ground of both your high voltage and low voltage systems to the **GND** pin on the module. This is crucial for proper operation.
3. **Connect Data Channels:** Connect the high voltage side signals to the **HU1-HU8** pins and the low voltage side signals to the corresponding **LU1-LU8** pins. The module will automatically translate the logic levels bi-directionally.

*Example:* To convert a 3.3V signal to 5V, connect the 3.3V signal source to an **LUx** pin, and the 5V device input to the corresponding **HUx** pin. For 5V to 3.3V conversion, connect the 5V signal source to an **HUx** pin, and the 3.3V device input to the corresponding **LUx** pin.

## 5. OPERATING INSTRUCTIONS

Once properly connected, the Cylewet CYT1082 module operates automatically. It detects the voltage levels on the HV and LV sides and performs the necessary translation for each of the 8 channels independently. No additional configuration or software is required for its basic function. Ensure that the voltage supplied to the HV and LV pins matches the logic levels of the devices you are connecting.

## 6. SPECIFICATIONS

- **Model:** CYT1082
- **Channels:** 8 (Bi-directional)
- **High Voltage (HV) Support:** 5V (typical)
- **Low Voltage (LV) Support:** 3.3V (typical)
- **Dimensions:** Approximately 4.1 × 1.8 cm (1.6 × 0.7 inches)
- **Item Weight:** 0.634 ounces (per pack of 5)
- **Manufacturer:** Qianxin
- **ASIN:** B075PSB71D
- **Date First Available:** September 17, 2017

## 7. TROUBLESHOOTING

- **No Signal Translation:** Ensure that both HV and LV power supplies are correctly connected and powered. Verify that the GND pin is connected to a common ground. Check all data line connections for continuity.
- **Module Does Not Fit Breadboard:** The pin spacing of this module may not be compatible with all standard breadboards. If direct insertion is not possible, consider using jumper wires to connect the module to your breadboard or prototype circuit.
- **Incorrect Voltage Levels:** Double-check that the voltage supplied to the HV pin matches your high voltage system and the voltage supplied to the LV pin matches your low voltage system.

## 8. WARRANTY AND SUPPORT

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For technical assistance, product support, or warranty inquiries, please contact your original retailer or the manufacturer, Qianxin. Please provide your purchase details and the model number (CYT1082) when seeking support.