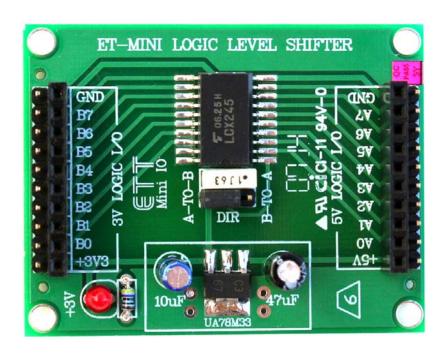
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Description

The MR-MINI-LEVEL-SHIFTER is a device that translate +5V to +3.3V logic or +3.3V to +5V logic. There are no external components required. This makes it perfect for embedded systems that need to interface with different logic level.

The board features innovations that set it apart from other level-shifter board. Innovations feature like on-board +3.3 voltage regulator, jumpers select direction, male and female input/output terminals and power on LED. The module can be easy to interface via male or female headers. The board is small can compact in size 2.20 x 1.70 inches.

The MR-MINI-LEVEL-SHIFTER is designed base on 74LCX245 IC. It is eight non-inverting bidirectional buffers. The device is designed for low voltage (3.3V) VCC applications with capability of interfacing to a 5V signal environment.

Features:

- +3.3V ⇔ +5V level shifter
- On-board +3.3V/500mA voltage regulator (can be use as supply power to +3.3V devices)
- Eight non-inverting bidirectional buffers
- Power on LED
- Jumpers direction selection
- Small and compact in size
- Four mounting holes on each corner
- Male and Female header inputs.

NOTE

There is an on-board +3.3V/500mA regulator provided. User only needs to supply power to +5.0V pin. +3.3V pin is an output voltage that can supply up to 500mA. DO NOT attempt to input any power to this pin. Doing so may damage the board.

Configurations:

1. Configure the board as +5.0V input and +3.3V output.

The jumper DIR must be set to position A-TO-B. Logic +5V logics are connect to side A as input and +3.3V logics are connect to side B as output. Signal logic +5V from side A is send through buffer and convert to +3.3V logic on side B.

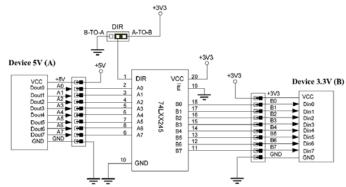


FIG 1: Jumper setting for A-TO-B direction

2. Configure the board as +3.3V input and +5.0V output.

The jumper DIR must be set to position B-TO-A. Logic +3.3V logics are connect to side B as input and +5.0V logics are connect to side A as output. Signal logic +3.3V from side B is send through

buffer and convert to +5.0V logic on side A.

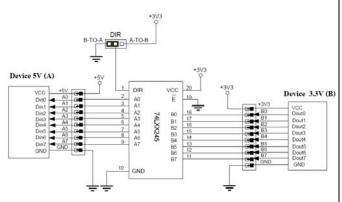


FIG 2: Jumper setting for B-TO-A direction



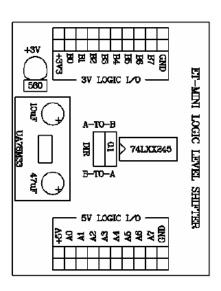
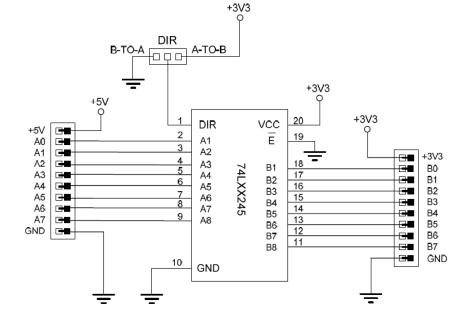


FIG 3: MR-MINI-LEVEL-SHIFTER Board Layout



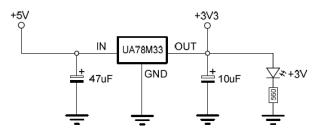


FIG 4: MR-MINI-LEVEL-SHIFTER Schematic

Notes

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