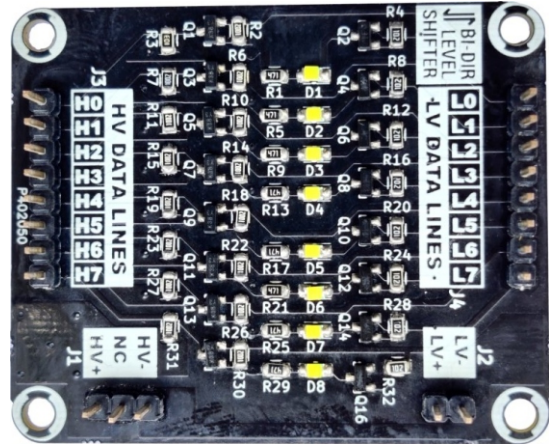


Description

The 8-Channel bi-directional logic level shifter is a small device that safely operates in stepping up higher voltage (upto 6V) signals to lower voltage signals (upto 1.2V) and vice versa.

These shifters are equipped with BSS138 N-Channel enhancement mode field effect transistors. Produced using Fairchild's proprietary, high cell density, DMOS technology. These products have been designed to minimize on-state resistance while provide rugged, reliable, and fast switching performance. These products are particularly suited for low voltage, low current applications such as small servo motor control, power MOSFET gate drivers, and other switching applications.



Level Shifter Board

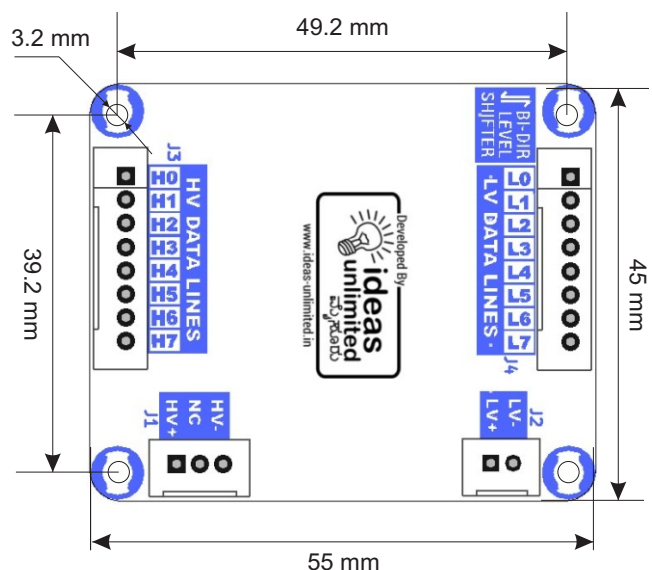
Features

- 8 channels can convert up to 8 logic signals
- Converts voltage levels between 1.2 to 3.6V and 1.65 to 6V systems
- Each channel operates independently
- Built in LED indicators for individual channel status(Enable/Disable)
- Rugged and Reliable

Evaluation Results

- These modules work very well when used correctly and are an easy way to implement level shifting for a number of applications.
- They operate faster than the common MOSFET level shifters and the 8 channels allows you to convert a complete 8-bit bus or multiple signals such as converting an I2C bus and several other logic signals

Mechanical Information



Application

- Prototyping & testing
- I2c bus communication