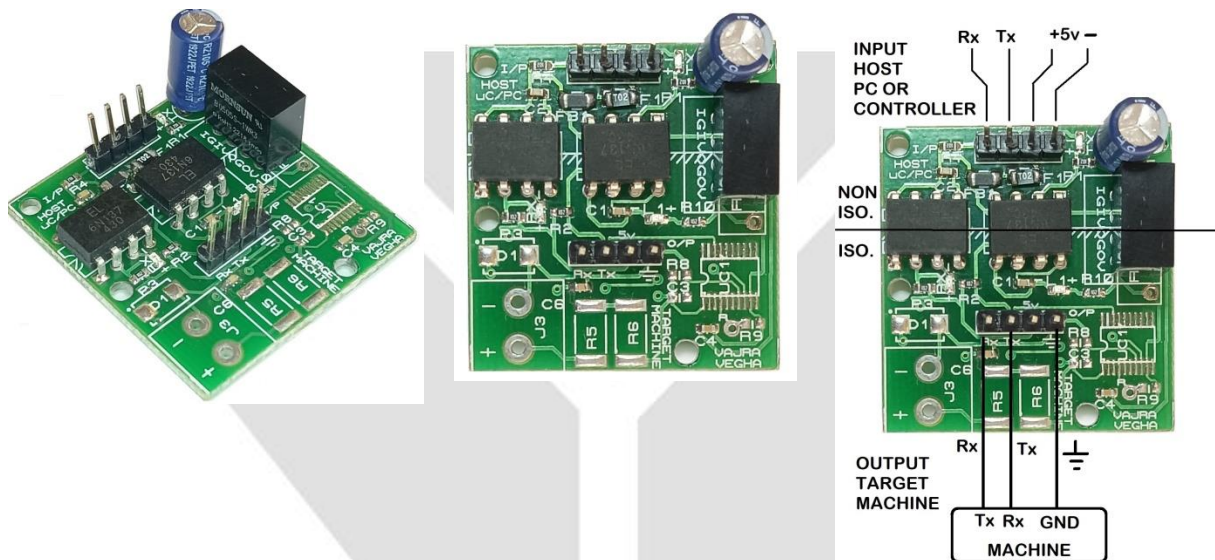


# Vajravegha TTL UART Serial to TTL UART Serial Isolated Module for Digital Isolated Communication in USB/RS232/RS485/Modbus Systems

Product ID: VVM481  
Version: v1.1

## Features:

- Suitable for reliable serial communication between systems requiring galvanic isolation. Eliminates common grounding to protect sensitive systems from hazardous voltages
- Isolation Voltage between Input and Output 1.5kV DC
- Supports Baud Rates upto 256000 bps
- Works on single 5v power supply at input side
- High Speed Optocouplers present on board, power On LED present
- Typical Applications include TTL Serial, RS232, RS485, Modbus and other communication protocols
- Suitable for Industrial Automation and Gateways Data Switching Systems, Host to Machine communication



- The input side is connected to the host computer or the controller system. The module requires stable 5v supply from the input side. Here Tx and Rx is of the module is connected to Tx and Rx respectively of the host
- The output side is connected to the target machine or controller from which Serial Communication is to be initiated. Connect the Ground of the module at the output side to the Ground of the target, Rx and Tx of the module to Tx and Rx respectively of the target machine
- Power LED glows and the host and the target can now initiate serial communication safely. Any Baud rate upto 256000 bps can be used.
- The output side also has 5v supply derived from the onboard DC-DC isolated converter. This can be used for powering small loads such as RS232, RS485 modules, etc. Maximum current 100mA.
- All pins are 5v compatible. The module can also be connected to separate USB to TTL module, RS485 or RS232 modules as shown below

