

### 3 Channel Serial Dimmer

The board can be used in applications where dimming of 110-220V AC power is required like dimming of bulb or fan. The board can be control with a serial data from any microcontroller 0-100% dimming or ON/OFF control. Board also providing an option for connecting bluetooth and controlling the loads from any smart apps. Mains power (230v) completely isolated from the microcontroller.



### Features

- Isolated from main power.
- Works from any microcontroller input.
- Serial control(TTL).
- Acts as 3 channel solid state relay with ON/OFF and dimming.
- Simultaneous 3 load capacity with 0-100% dimming.
- Optional input for microcontroller or Bluetooth interface pin TX,RX,5v,GND.

### Specifications

Parameter	Value
AC power supply	230v
Load capacity	12amp AC

### Pin Details

Pin	Name	Details
1	+5v	Power supply



2	GND	ground
3	tx	transmitter
4	rx	receiver
5	GND	ground

## Working

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### UART INPUT FOR LOADS

A=load1

B=load2

C=load3

S=ALL OFF (LOAD1=OFF,LOAD2=OFF,LOAD3=OFF)

N=ALL ON (LOAD1=100%, LOAD2=100%, LOAD3=100%)

### **Example**

A100= load1 at 100% dimmer level.

A026=load1 at 26% dimmer level.

B065=load2 at 65% dimmer level.

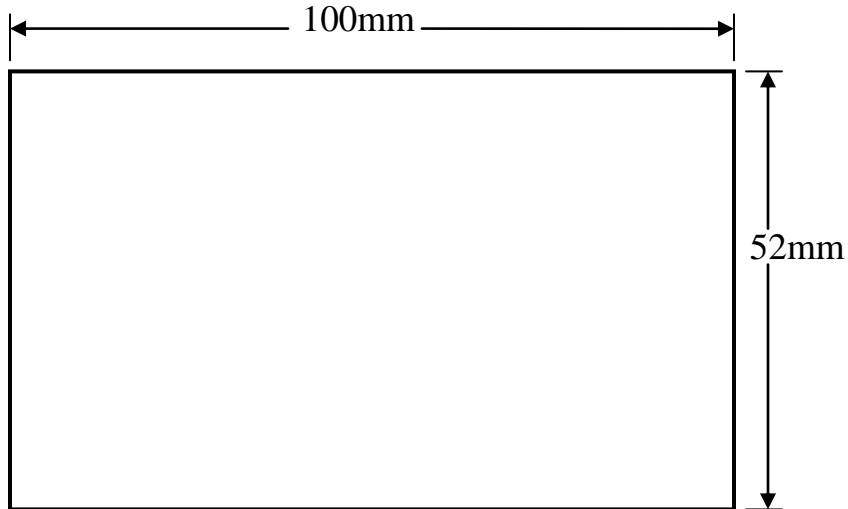
A089=load3 at 89% dimmer level.

## Sample Application

To view sample code and schematic click the below link:

<http://researchdesignlab.com/index.php/modules/serial-3-channel-ac-230v-ssr-and-dimmer.html>

## Board Dimensions



To buy this product click the below link

<http://researchdesignlab.com/index.php/modules/serial-3-channel-ac-230v-ssr-and-dimmer.html>

