"Documentation for three Light Dimmer"

Sample of RECEIVED FRAME

```
%
%
<Switch_Number_MSB>
<Switch_Number_LSB>
<Switch_State>
<Speed_MSB>
<Speed_LSB>
<Parental_Lock>
<Final_Frame_State>
0<Reserved_bit>
0<Reserved_bit>
0<Reserved bit>
0<Reserved_bit>
0<Reserved bit>
@
@
```

Module: three Dimmer only

Module Description: "Control three dimmer"

Sample Input Frames Received:

```
%
%
<Switch_Number_MSB>
<Switch_State>
<Speed_MSB>
<Speed_LSB>
<Parental_Lock>
<Final_Frame_State>
0<Reserved_bit>
```

Sample Output Frames Produced : <G/R> <SwitchStatus> <SwitchNumber_MSB> <SwitchNumber_LSB>

<G/R> : Depends changes have been done thru Mobile or Touch Panel Switch

- if Mobile request -> "G"
- if manual switch request --> "R"

<1/0> : Switch State ON/OFF

❖ Algorithm of code :

Two Parts:

1. Manual Switch changes:

if(switch<number> is high)--> ON relay<number>
if(switch<number> is low)--> OFF relay<number>

- 2. Mobile Frame Changes:
 - ISR will be called
 - Receive that data into buffer
 - Parse the data and fetch out specific requirement
 - Take the decision
- Steps to burn code into PIC:

Use ICD-3 -> connect MCLR, VCC, GND, PGD, PGC on the board --> use "Make and Program Device Main Project"

- Known issues in the code: no issues
- Assumptions made in the project
 - I have define Macros for each pin initialization

//RELAYS and switches #define RELAY2 RE5//DIMMER1 #define RELAY3 RA3//DIMMER2 #define RELAY4 RA2//DIMMER3

#define SW1 RF7//DIMMER1 #define SW2 RF5//DIMMER2 #define SW3 RF3//DIMMER3