

By using modern techniques and trends we have designed our project kit to reduce manpower and to satisfy our facility in convenient manner. Many of us, either forgot to switch off all electric devices in our home/Industry or will always be in doubt whether all the electric appliances are switched off or not. In such cases it is essential to have a remote controller that controls the devices from any remote place through a mobile phone. This can be utilized to control either the main power unit of the entire houses, industry or some individual appliances.

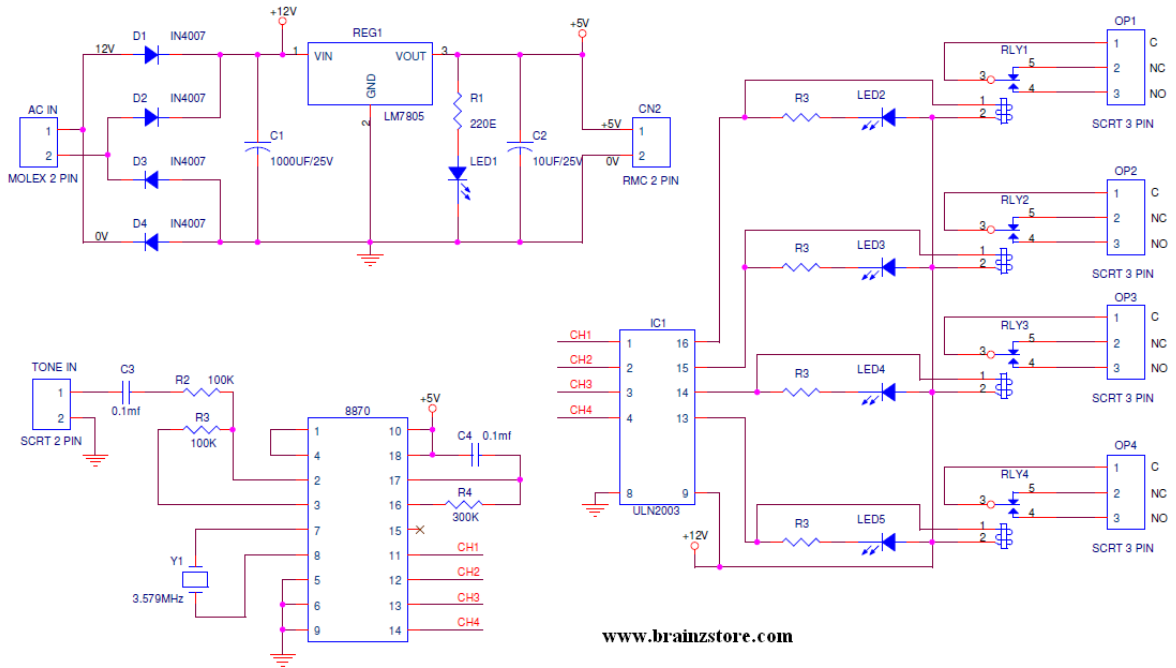
The system involves simple digital logic and it cost less than Microprocessor Controlled systems.. Our system is provided with ten channels through which for devices can be controlled. This can be extended to any number of devices.

The command signal for this system is DTMF signal through mobile phone. DTMF signal is used for remote switching operation. DTMF decoder (8870) detects the signal and convert it in to corresponding BCD code. The output of the BCD code from DTMF is fed to the Relay Driver IC (ULN2003) to drive the relays, which switches on or off the equipment. These devices can be used in industries, houses, and hospitals and in agriculture farms. A lot of electric appliances can be controlled with a single unit.

Dimension:

8.5 * 10 cm

Circuit:



www.brainzstore.com

Diode (D1-D4) ----- IN4001

Capacitor

C1 ----- 1000MFD/25v
 C2 ----- 10MFD/25V
 C3 – C4 ----- 0.1mfd

Resistor:

R1 ----- 220 E
 R2= R3 ----- 100K
 R4 ----- 300K
 R5= R6= R7 =R8 ----- 470E

Xtal ----- 3.579 Mhz

AC In ----- 12V AC
 Tone In ----- Tone Input from Mobile/Telephone Line

LED ----- 5mm LED

RLY1 – RLY4 ----- Cube Relay (12V/7 Amps)

OP1 – OP4 ----- Connector (5082/V3 Connector)

IC ----- 8870 , ULN2003

Reg ----- 7805

Output Table:

Keypad	DTMF	OP1	OP2	OP3	OP4
0	1010	OFF	ON	OFF	ON
1	0001	ON	OFF	OFF	OFF
2	0010	OFF	ON	OFF	OFF
3	0011	ON	ON	OFF	OFF
4	0100	OFF	OFF	ON	OFF
5	0101	ON	OFF	ON	OFF
6	0110	OFF	ON	ON	OFF
7	0111	ON	ON	ON	OFF
8	1000	OFF	OFF	OFF	ON
9	1001	ON	OFF	OFF	ON

Caution: * Input AC 12 V should be given via step down transformer**

