

Jukebox LNS Circuit Description

Transmitter :

Power “C” cell x3 .

provide 4.5 V DC voltage keyscan IC TR1212S19 , RF transmitter module board and IC PT2262 and PT4450, also using

When unit power up. Waiting key in form the penal

If key is press , TR1212S19 will send 5 bits control data code to encoder IC PT2262 D0 to D4 , and then PADB2 pin of TR1212S19 will go low HIGH voltage 300ms, PT2262 encode data to serial coded waveform though resistor RR17 pass to PT4450, PT4450 will modular data to ASK/OOK and then transmit .433MHz is a SAW oscillator for PT 4450.

Receiver :

Power input is 120V AC.

Using Transformer provide 9v ac voltage, D1, D2,D3 and D4 Diodes 1n4001 provide DC voltage.

Using U1 LM7805 regulator provide 5v DC to IC PT 2272 decoder and IC PT4317 receiver IC.

TR1301S80 music received control code from PT2272 .

Music start to play or change light string pattern .

The PT4317 is a very low power consumption single chip OOK/ASK super heterodyne receiver. PT2272 will received data from PT4316 through RS25. PT2272 will compare data, which is received, is match the address as PT2272 hardware setting (PT2272 address pin A0 to A5).

When PT2272 Identified the valid control code. Pin 17 (VT pin) of PT2272 will give high voltage to GPCE048A pin IOB11.

Then GPCE048A will read 6 bits control code data from PT2272 (D0 to D5).

The GPCE048A had a pre-set program to control light flashing (receptacle).

When GPCE048A received a valid Control code. IOB55 On the IC GPCE048A will give High /Low signal to U4 MOC3020 Optoisolator to control T1 Triac BTA16 on and off, when Triac is “ON” AC current can pass though X7 receptacle when music is singing a song .