

Circuit Description

Main board connector consists of the following components:

1. Power Supply Circuit: The Transmitter is powered by SMPS at 29V
2. DC to DC circuit: Through the control chip IC3 (LM317T), 29V input power is converted to motherboard power 3.3V.
3. Led circuit: H1-H2 for status Indicator.
4. Keyboard circuit: S1 pairing key.
5. RF circuit: RF chip (Manufacturer : Nordic Semiconductor, Model: NRF24L01+) external crystal oscillator 16 MHz, through frequency multiplier (working frequency 2403MHz-2480MHz), through the RF circuit, transmit-receive data from remote to MCU transmit to the terminal equipment.
6. The JLDP.15.010.001 has 78 channels in 2403MHz-2480MHz, the program will randomly select a channel as communication channel and user can't change the channel forever. The center frequencies of each of these channels is in below.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	40	2442
2	2404	41	2443
...	...	...	...
38	2440	77	2479
39	2441	78	2480