

## Schematic description of NANO-FC-FM

1. The NANO-FC-FM receives the 12V power from the vehicle's cigarette lighter socket. The 12V electrical is regulated by the regulator which generates a constant output of 5V / 40mA. It is working voltage for IC1 BH1417
2. The 27th, 28th, and 29th pin from the iPod's 30 pin connector are for audio's Left, Right, Ground input/output
3. The transmission frequency is stable because it has a PLL system FM transmitter circuit. PLL controls data input in parallel.(4bit. data input pin15,16,17,18) Stereo audio signal go through by pre-weighting, limiter to tone circuit, then go through by phase - locked loop circuit to output from an amplifier system. The output frequency is controlled by adjust side switch, total have 88.2MHz 、 88.4MHz 、 88.6MHz 、 88.8MHz 、 , 4 channel,