

## FM transmitter Circuit Description

This product has a MCU (Atmelatmega 48) to control below module :

1. FM transmitter unit: it include a main chip(BH1418FV)and some periphery circuit. This unit will modulate the audio signal and transmitter out
2. LCD display unit: it include a LCD driver(HT1612) and LCD to display the frequency of FM transmitter
3. Button input unit: the user press these buttons to power on/off this product, to set FM frequency. And a quick switch button to switch frequency.
4. Audio input unit: it include a audio signal detecting circuit and a 3.5mm audio in jack, if there are no signal input, FM transmitting will be off within one minute.

This product's power comes from car cigaretter, it support 12VDC or 24VDC input, still have a 1A fuse in the power circuit, and have a DC/DC step down circuit to offer 5V DC. 5V DC is used to charge iPod or other product. Then use a LDO to offer 3.5VDC to power this product.