

Operational Description

Circuit Description

The USB storage devices insert to the USB socket. The MP3 data in the USB storage devices will transfer to the IC C1220 (USB controller) and then it will pass to the IC C3001 (MP3 decoder). After the C3001 process the MP3 data will decode to an audio signal. The audio signal will pass through to the frequency modulation transmission IC1417 (FM TX). This IC has a PLL (Phase Locked Loop) and transmission function. The audio signal can transmit to 7 different FM channels (106.7, 106.9, 107.1, 107.3, 107.5, 107.7, 107.9MHz). The frequency channel is selected by a rotate switch. The FM signal will pass to the capacitor C14 and transmit by the antenna.

The bit rate is 320Kbyte.

Antenna and ground circuitry

This unit has a printed circuit board antenna and internal antenna wire (about 8 centimeter). The power is supplied by 12 Voltage from the Car Cigar outlet.