

FM transmitter Solution

Specification: version 1

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A. Core chip

1. Abov MC80F series or HMS87C series
2. 5V LCD module
3. FM Transmitter demonstration board
4. 24C16 EEPROM

B. Feature

1. Up and Down key for user to select FM authorized full range operation frequency
2. Automatic memorized last operated frequency.
3. Automatic recall last store memorial frequency
4. Besides last memory function, extra 4 memories for user to store the favour channel.
5. Auto-power off LCD backlight
6. Default FM frequency range from 87.0 to 108.0MHz
7. Auto detect and initialization the eeprom when it is blank
8. EEPROM error detection
9. Simple operation
10. EEPROM configuration for FM chip

C. Operation

Simple operation with four key

1. UP key, press to advance the frequency
2. Down key, press to decrease the frequency
3. M_save, save memory, auto advance the memory from 0 to 3
4. M_recall, recall memory from M0 to M3 location

D. LCD display

1. During power up, will display as follows

FM 108.6MHz

2. Display recall memory

M0 recall 89.4MHz

3. Display save memory

M2 Save 98.1MHz

4. Display EEPROM error

Ep Error

E. Configuration FM transmitter via EEPROM

1. Different firmware has been built to control different FM transmitter chip.

F. Firmware Option feature

1. Increase number of store memory, depends on eeprom size
2. FM range can be changed from 76 to 90MHz
3. Different LCD display format to meet customer delicate operation feature
4. Touch sensor interface to have better user interface to form deluxe version.