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A. HE83135 Introduction

HE83135 is a member of 8-bit Micro-controller series that is developed by King Billion. This IC built-in 640-dot LCD driver and has one OP comparator. The built-in OP comparator can be used with (light, voice, temperature, humility) sensor etc. The 7-bit current-type D/A converter and PWM device provide. The 64K ROM Size can storage around 20 second's speech. This IC is applicable to the medium systems such as LCD Games and Educational Toy etc. Use external SRAM or Flash RAM to have recording function. This IC is applicable to the medium systems such as LCD Games, Education Toy etc. This IC is very easy to learn and use. Most of instructions take only 3 oscillator clocks (machine cycles). As a result this IC is suitable for the applications that require higher performance system.

B. HE83135 Features

• Operation Voltage: 2.2V - 5.5V

• System Clock: DC ~ 8MHz @ 5.0V

DC ~ 4MHz @ 2.2V

• Internal ROM: 64K Bytes(64K Program ROM)

• Internal RAM: 2K Bytes

• Dual Clock System: Normal (Fast) clock: 32.768K ~ 8MHz

Slow clock: 32.768KHz

• Operation Mode: DUAL, FAST, SLOW, IDLE, SLEEP Mode.

- With WDT (WATCH DOG TIMER) to prevent deadlock condition.
- 12-bit Bi-directional I/O port. Mask Option can select PUSH-PULL or OPEN DRAIN output mode for each I/O pin.
- One built-in OP comparator.
- 640 dots LCD driver (A, B TYPE selectable).
- One 7-bit current-type DAC output.
- PWM device.
- Two external interrupts and two internal timers interrupts.
- Two 16-bit timers.
- Instruction set: 32 instructions, 4 addressing mode. 11-bit DATA POINTER for RAM and 16-bit TABLE POINTER for ROM.

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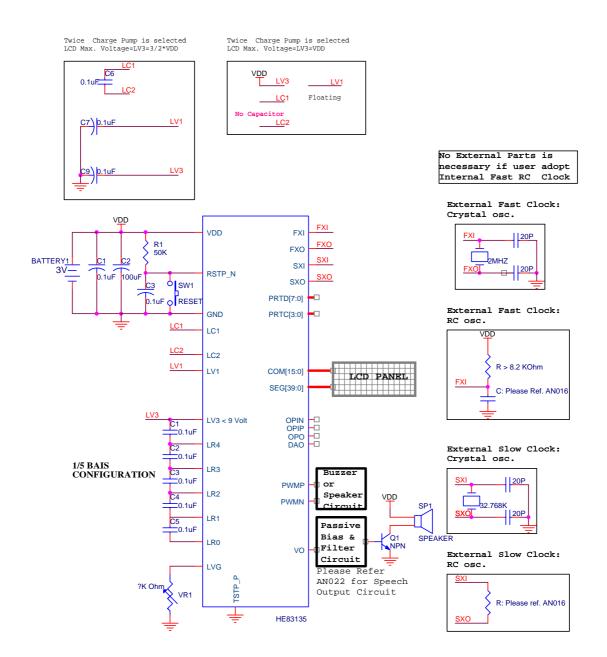
C. Application Circuit

V3.2E



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