MC96F6832

8-bit Microcontroller with LCD Driver

General Description

MC96F6832 is a CMOS 8 bit MCU which provides a 32K bytes FLASH-ROM and 1.25K bytes RAM.

It has following major features,

12 bit ADC : It has 8 ch A/D converter which can be used to measure minute voltage.

Power Consumption – Sub Active Mode: To decrease the power consumption, It can be operated with sub-clock (32.768kHz).

Applications

LCD Remote Control

Health Care

Home Appliances

Features

- **8-Bit CISC Core**
  - **8051 Compatible, 2 clock per cycle**
- **32K Bytes On-chip FLASH**
  - **Endurance: 100,000 cycles**
- **1.25K Bytes SRAM**
- **12-bit A/D Converter: 8ch**
- **70 I/O Pins at 80-Pin Package**
- **8-bit Timer x 2ch, 16-bit Timer x 2ch**
- **PWM: 8bit x 1ch, 16bit x 1ch**
- **SIO, UART**
- **Buzzer: 8bit x 1ch**
- **Watch Timer, Watchdog Timer, Basic Timer**
- **Interrupt Source**
  - **10 External Interrupts, 10 Internal Interrupts**
- **LCD: 34SEG x 8COM, 2/3/4/5/6/8COM selectable**
- **Power on Reset**
- **Low Voltage Indicator: 13 level (2.0V~4.4V)**
- **Power Down Mode: Sleep, Stop**
- **Oscillator: 1~12MHz(Crystal), 8MHz±10%(IRC)**
- **Supply Voltage & Frequency**
  - **1.8V to 5.5V at 1~4.2MHz**
  - **2.7V to 5.5V at 1~10MHz**
  - **3.0V to 5.5V at 1~12MHz**
- **Operating Temperature: -40°C to +85°C**
- **Package Type**
  - **80-LQFP/MQFP, 64-LQFP**

Block Diagram