## 8-bit micro-controller with 160 dots LCD driver

## **Features**

- Single chip 8-bit micro-controller
- Operating voltage: 2.2V to 5.5V
- Memory :
  - Program ROM: 8K Bytes
  - ◆ Data RAM : 128 Bytes
  - ◆ LCD display RAM : 20 Bytes
- 18 input/output pins:
  - Dedicated I/O pins: P0[0:3] ,P2[0:1]
  - Shared input or output pins:
    - P0[4:5]/TMin
    - P1[0:1]/IR
    - P3[0:7]/Segment

- LCD driver output:
  - ◆ Max 32 segment × 5 common
  - ◆ 1/4 or 1/5 duty 1/3 bias driving mode
- Two re-loadable 8-bit timers
- Build-in Watch-Dog timer
- Build-in dual oscillation circuit:
- Single or dual clock operation is selected by code option
- RC type main oscillator
- Crystal type sub-oscillator
- Oscillator up to 4MHz @ 2.4V
  and 6MHz @ 3.6V

## **Application Field**

Timepiece, sport meter