Ultra Low Power Microcontroller with 4x32 LCD Driver

The EM6626 is a mask ROM microcontroller featuring low voltage and low current consumption, making it the most suitable choice for battery-operated and cost sensitive applications.

Key Features

- **True Low Current:**
  - 1.8 µA active mode
  - 0.4 µA standby mode
  - 0.2 µA sleep mode

- **Temperature compensated LCD voltage levels**

- **Free LCD segment allocation**

- **Built-in LCD voltage multipliers**

- **10-bit universal counter, PWM function**

- **Millisecond counter (BCD)**

- **Melody generator (7 tones + silence)**

- **MFP version available for development**

& **BENEFITS**

- Ideal for battery-operated applications
- Uniform and constant LCD contrast
- Great flexibility in displaying LCD segments
- Less external components
- Cost effective
- Robust and proven design

And more...

- Low Voltage 1.2V to 3.6V
- 32kHz/128kHz crystal oscillator
- LCD frequency 32Hz/42.7Hz/64Hz
- LCD 32 segments, 3 or 4 times multiplexed
- Supply Voltage Level Detector (SVLD), 8 levels software selectable from 1.2V to 4.0V
- Max 12 inputs; port A, port B, port SPI
- Max 8 outputs; port B, port SPI
- Mask ROM 4k x 16bits; RAM 128 x 4bits
- 8-bit SPI, 3 wire serial port, master and slave mode

Tools & Services

- Easy to use, well-proven simulator and emulator
- Windows-based software programs
- MFP version EM6522 available for development stage
- Dedicated team of engineers for outstanding customer and software support
- Wafer bank for fast prototyping = fast time to market
- Complete datasheet, application note, demo kit and info at http://www.emmicroelectronic.com

Typical Applications

- Household appliances
- Timer/sports timing devices
- Bicycle computers
- Measurements equipment
- Security, safety and medical devices
- Interactive systems with display

![Ultra low Current Consumption](image)

**Application with sensor interface and melody generator**