MLC605A

8-bit micro-controller with 260 dots LCD driver

Features

- Single chip 8-bit micro-controller
- Operating voltage: 2.4V–5.5V
- Built-in Ring oscillator 1.8MHz
- Memory :
  - Program ROM : 32K-byte
  - Data RAM : 128-byte
  - LCD display RAM : 40-byte
- 8 input/output pins
  - 4 input pins (P0.0 to P0.3) with wake-up function
  - 2 Input/output pins (P1.0 to P1.1)
  - 2 output pins (P2.0to P2.1)
- Two PWM output pins with 6bit PCM resolution for audio output
- LCD driver output
  - 26-segments by10-commons
  - 1/10 duty, 1/4 bias driving mode
- Three types of interrupts:

  Reset, TM1, 1.0KHz (Fosc/2048)
- Built-in frequency divider circuit
- Built-in programmable timer
  - Timer 1: 8-bit timer with four internal clock sources and auto-reload function
- HALT mode and STOP mode for power saving

Application Field

Hand-held game

Toy

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General Description

MLC605A is a cost effective, high performance 8-bit micro-controller of MEGAWIN. It integrates an 8-bit pipeline CPU core, ROM, RAM, timers, LCD driver, I/O ports and system control circuits into a single chip. The MLC605A provides a build-in oscillator as clock source. It is suitable for hand-held game, toy controllers, and other products.