MLC0xxB Series

8-bit I/O type micro-controller with voice function

Features

- Single chip 8-bit CPU
- Operation voltage: 2.4V to 5.5V
- Memory:
  - ROM (shared by program and data): 1024K ~ 48KBytes
  - Data RAM: 256 Bytes
- 24 input/output pins with wake-up function
- Two power-down modes for saving power consumption:
  - Sleep mode: micro-controller no operation (main- and sub-oscillator still oscillating)
  - Stop mode: micro-controller no operation (all oscillators stop oscillating)
- Two current DAC output for voice synthesizer
- Dual-channel melody with programmable envelope
- One serial input port and voltage comparator built-in
- Three re-loadable 16-bit timers
- One watchdog timer built-in
- Oscillator
  - Single or dual clock operation is selected by code option
  - Main oscillator operation at crystal or RC mode is selected by code option
  - Crystal/Ceramic oscillator up to 4MHz @ 2.4V and 8MHz @ 3.6V
  - RC oscillator up to 4MHz @ 2.4V

Selection Information

	MLC331B	MLC241B	MLC161B	MLC121B
ROM (Program ROM)	1024K x 8-bit (32K x 8-bit)	768K x 8-bit (32K x 8-bit)	512K x 8-bit (32K x 8-bit)	384K x 8-bit (32K x 8-bit)
I/O	24	24	24	24

	MLC081B	MLC061B	MLC041B	MLC031B	MLC021B	MLC017B
ROM (Program ROM)	256K x 8-bit (32K x 8-bit)	192K x 8-bit (32K x 8-bit)	128K x 8-bit (32K x 8-bit)	96K x 8-bit (32K x 8-bit)	64K x 8-bit (32K x 8-bit)	48K x 8-bit (32K x 8-bit)
I/O	24	24	24	24	24	24

Application Field

Toy controller

General IR controller

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