MLS9xxB 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
- 16 input/output pins with wake-up function
- Two power-down modes for saving power consumption:
  - Sleep mode: micro-controller no operation (main-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
- Three re-loadable 16-bit timers
- One watchdog timer built-in
- Oscillator
  - Main oscillator operation at crystal or RC mode is selected by code option
  - Crystal/Ceramic oscillator up to 4MHz @ 2.4V and 6MHz @ 3.6V
  - RC oscillator up to 4MHz @ 2.4V

Selection Information

	MLS918B	MLS916B	MLS914B	MLS912B	MLS910B
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)	256K x 8-bit (32K x 8-bit)
I/O	16	16	16	16	16

	MLS908B	MLS906B	MLS904B	MLS903B	MLS902B	MLS900B
ROM (Program ROM)	192K x 8-bit (32K x 8-bit)	128K x 8-bit (32K x 8-bit)	96K x 8-bit (32K x 8-bit)	80K 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	16	16	16	16	16	16

Application Field

Toy controller

General IR controller

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