

## 32Bit Micro-Controller

**LT32A01** is a 32bits MCU with high efficiency and low cost. It contains a high-performance 32bits C0 RISC core with maximum operating frequency of 48 MHz. In addition, the chip owns high speed embedded memory, includes 32KB Flash、4KB SRAM. It support various standard communication interfaces, includes a SPI, an I2C, two SCI, 8 channels high resolution PWM, an 8 channels 12 bits ADC, an extensive enhanced peripheral and various GPIO interfaces.

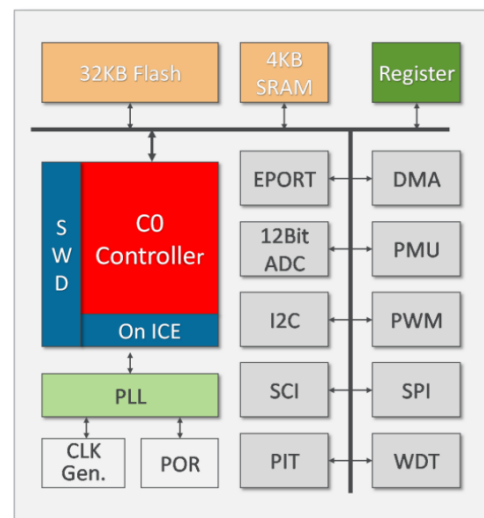
LT32A01 has excellent multiplication ability, suitable for various home appliances, electronic toys, flight controllers, etc, especially applicable for those electronic products that can not be satisfied by 8bits or 16bits MCU.



### Characteristic

- 32bits C0 RISC MCU and 16-bits fixed-length Instructions.
- 32 bits×32 bits single-period Hardware Integer Multiplier
- 32bit 3~13 Periodic Hardware Divider
- Built-in 32KByte embedded FLASH (EFLASH) and 4K Byte SRAM
- Five built-in 16-bit Periodic Interval Timer (PIT)
- Support SPI, I2C
- Support 2 channel SCI (Serial Peripheral interface)
- Support 2 sets 8 channels PWM
- Eight built-in external Analog inputs and 12-bit ADC Convertor
- Support 3 channel DMA controller
- Support SWD (Serial Wire Debug)
- Built-in Watch-Dog Timer
- Built-in PMU (Power Manage Unit)
- Built-in programmable voltage detector
- Built-in 48MHz PLL internal Oscillator
- Working voltage : 2.8V~5.5V

### Block Diagram



### Part No.

| Part No. | Package                     |
|----------|-----------------------------|
| LT32A01A | 48Pin QFN<br>(QFNWB7X7-48L) |
| LT32A01B | 32Pin QFN<br>(QFNWB5X5-32L) |