



### **STM32F103C8T6**

STM32F103C8T6 is designed and developed by STMicroelectronics. An ultra-low power 32-bit microcontroller MCU. Can be used in applications including motor drives. PC and gaming. HVAC and industrial applications. It is one of the MCUs that are currently in great demand. For more original and popular electronic components, please contact us!!!

The STM32F103C8T6 has the speed of a 72 MHz CPU and up to 1 MB of flash memory. Contains motor control peripherals and CAN and USB full-speed interfaces. Using an ARM Cortex-M3 32-bit flash microcontroller, it operates with low power, low voltage, combined with excellent performance for real-time functions. High performance 32-bit RISC pin-to-pin software compatible SRAM up to 96 Kb flash memory up to 1MB power supply. Enhanced range of enhanced I/O and external connections to two APB buses. Features 12-bit analog-to-digital converters, timers, PWM timers, standard and advanced communication interfaces.

### **Product Features**

- Core: ARM 32-bit Cortex™-M3 CPU
  - Up to 72MHz operating frequency, up to 1.25DMips/MHz when accessing with 0 wait cycles of storage (Dhrystone 2.1)
  - Single cycle multiplication and hardware division
- Memory
  - From 64K or 128K bytes of Flash program memory
  - Up to 20K bytes of SRAM
- Clock, reset and power management
  - 2.0 to 3.6V power supply and I/O pins
  - Power-on/power-off reset (POR/PDR), programmable voltage monitor (PVD)
  - 4~16MHz crystal oscillator
  - Built-in factory-trimmed 8MHz RC oscillator
  - Built-in 40kHz RC oscillator with calibration
  - PLL that generates the CPU clock
  - 32kHz RTC oscillator with calibration
- Low power consumption
  - Sleep, Shutdown and Standby Modes
  - VBAT powers the RTC and backup registers

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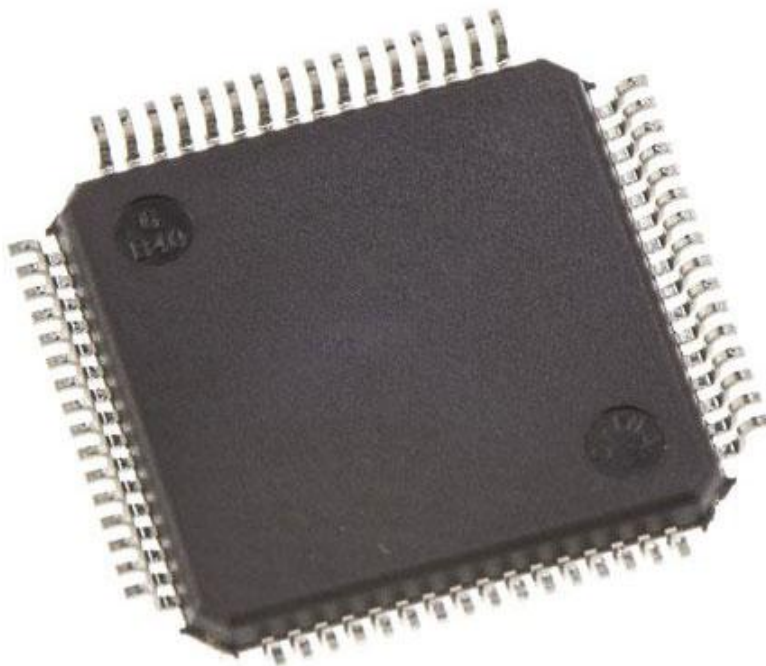
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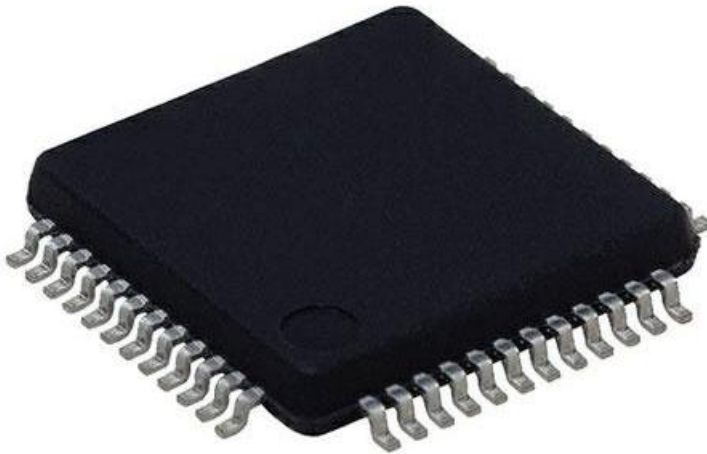
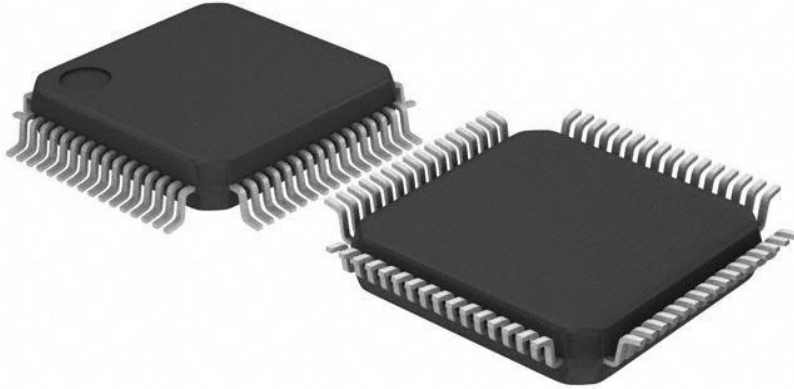
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**Product parameters**

technical parameter	frequency	72MHz
	Supply voltage (DC)	2.00V ( min )
	Operating Voltage	2V-3.6V
	Number of pins	48
	Clock frequency	72MHz
	RAM size	20KB
	number of digits	32
	FLASH memory capacity	64KB
	Analog to Digital Conversion (ADC)	2
	Number of inputs/outputs	37 Input
	Operating temperature	-40°C-85°C (TA)
	package	LQFP-48
	Packing	Tray

**Product Image**





## FAQ

Q: How big is your warehouse?

A: The warehouse area of our company is 500m<sup>2</sup>, and we have a lot of stock.

Q: How do you ensure the safe transportation of goods?

A: We cooperate with professional multinational logistics companies to ensure the safety of cargo transportation.

Q: Do your products have quality assurance?

A: Yes, all our products need to be tested before shipping.