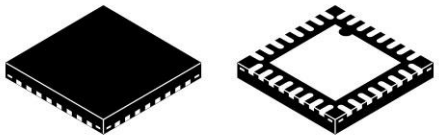

STM32F051K8U6

STM32F051K8U6 microcontroller is a chip of STMicroelectronics STM32F05 microcontroller series. Next, I will introduce you the detailed information about this product, I hope it can help you. Based on the ARM Cortex™-M0 core, the STM32 F0 series of 32-bit flash microcontrollers (MCUs) offer real-time performance, operate at low power, and run on STMicroelectronics STM32 platform. Our company is equipped with a strong global procurement team, with source channels and spot inventory of STM32F05 microcontroller series. Welcome new and old customers to cooperate with XT-ShenZhen®, we will reply to your request within 24 hours.

The STM32F051K8U6 microcontroller integrates a high-performance ARM® Cortex®-M0 32-bit RISC core, running at up to 48MHz, with high-speed embedded memory (up to 64KB Flash and 8KB SRAM) and a wide range of enhanced peripherals and I/ Os.
STM32F051K8U6 is equipped with standard communication interfaces (up to two I2C, up to two SPI, one I2S, one HDMI CEC and up to two USART), one 12-bit ADC, one 12-bit DAC, one 32-bit timer, advanced control PWM timer and six 16-bit timers.
The STM32F051K8U6 microcontroller has an operating temperature range of -40 to +85°C and a supply voltage of 1.8V to 3.6V
The combined advantages of comprehensive power-saving modes and optimized dynamic power consumption enable the design of low-power applications.
The STM32F051K8U6 microcontroller is suitable for a wide range of application scenarios such as industrial applications, PLCs, inverters, digital TVs, handheld devices, application control and user interfaces, video intercoms and HVAC, A/V receivers, PC peripherals, gaming and GPS platforms , printers, scanners, alarm systems.

Product Features

•Core: ARM® 32-bit Cortex®-M0 CPU up to 48 MHz
•memory
–16 to 64 KB Flash
–8 KB SRAM with hardware parity
•Up to 55 fast I/Os
–All mappable to external interrupt vectors
–Up to 36 I/Os with 5V tolerant capability
•One 12-bit DAC channel
•Up to 18 capacitive sensing channels supporting touch keys, linear and rotary touch sensors
•Calendar RTC with alarm and periodic wakeup from stop/standby
•Communication Interface

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–Up to two I2C interfaces, one supports fast mode plus (1 Mbit/s) with 20 mA current sink, SMBus/PMBus and stop mode wake-up

–Up to two USARTs supporting master synchronous SPI and modem control, one with ISO7816 interface, LIN, IrDA capability, auto-baud rate detection and wake-up,

–Up to two SPIs (18 Mbit/s) with programmable frames from 4 to 16 bits, one I2S interface with multiplexing

Product parameters

Product parameters	frequency	48MHz
	RAM size	8KB
	number of digits	32
	FLASH memory capacity	64KB
	Operating temperature (Max)	85℃
	Working temperature (Min)	-40℃
	Supply voltage (Max)	3.6V
	Power supply voltage (Min)	2V
	Number of pins	32
	package	QFN-32

Product Image

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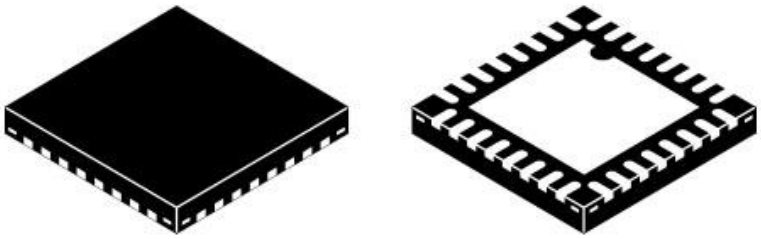

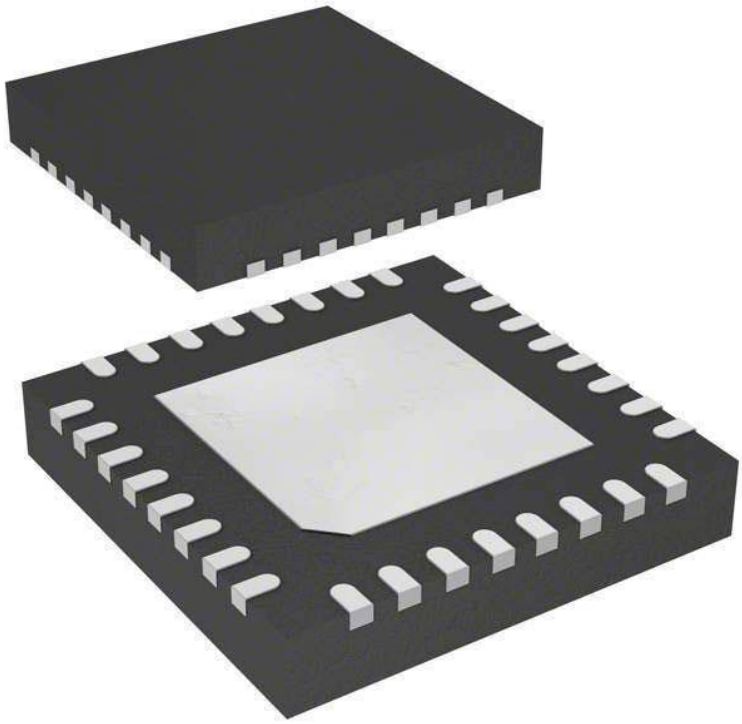

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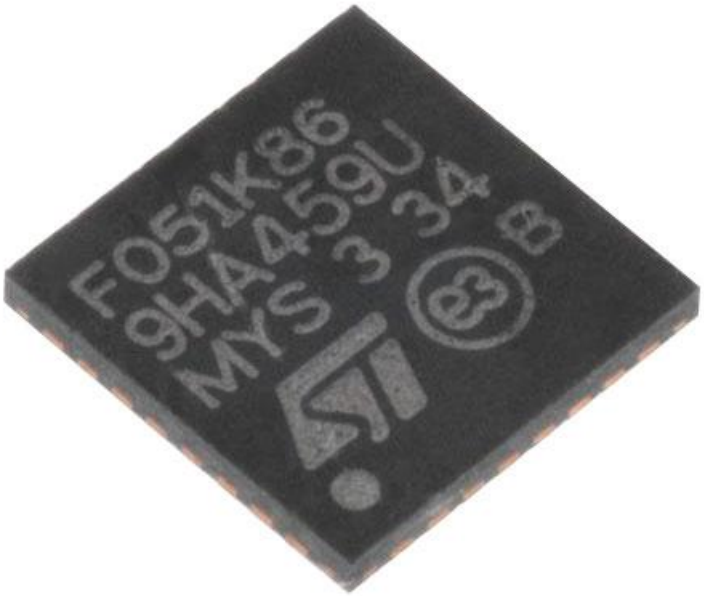

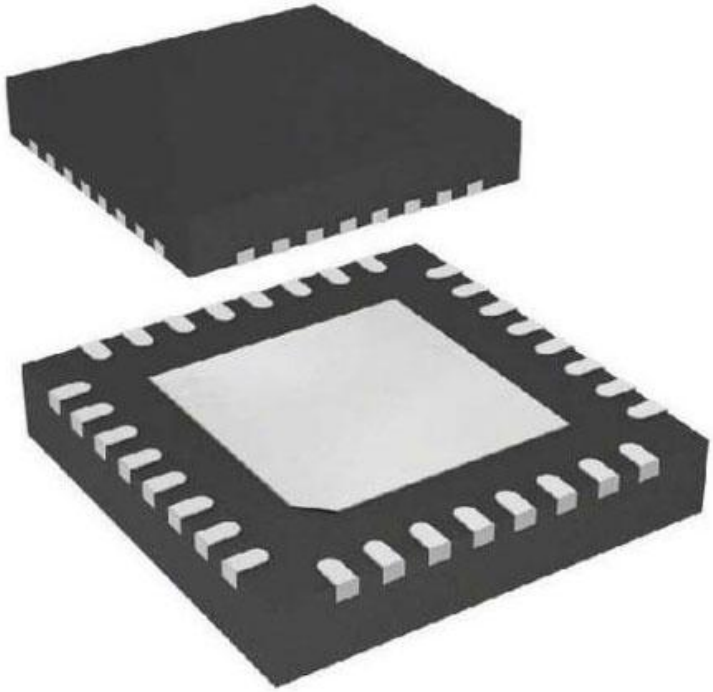

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FAQ

Q: Is your company a new company?

A: No, our company was established in 2014 and has 10 years of experience in supplying electronic components.

Q: Which clients have you served?

A: We provide services and maintain cooperative relationships with many well-known companies, including the top 10 companies in the automotive industry.

Q: Does your company have professional inspectors?

A: Yes, in order to ensure product quality, we employ a number of professional engineers.

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