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See specifications for product details.



STM32F051K4T6

Manufacturer Part Number	STM32F051K4T6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F051K4T6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 16KB FLASH 32LQFP
Package	32-LQFP
Data sheet	STM32F0zzz Programming Manual.pdf STM32F051x4, x6, x8 Datasheet.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32F051K4T6 Tech Specifications

STM32F051K4T6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	32-LQFP (7x7)	Number of I/O	25
Speed	48MHz	Mounting Type	Surface Mount
Series	STM32F0	EEPROM Size	-
RAM Size	8K x 8	Data Converters	A/D 13x12b; D/A 1x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	16KB (16K x 8)	Core Processor	ARM® Cortex®-M0
Peripherals	DMA, I ² S, POR, PWM, WDT	Connectivity	HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART
Package / Case	32-LQFP	Base Product Number	STM32F051
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F051K4T6

Product Attribute				
Part Number	STM32F051K4T6	STM32F051C8T7TR	STM32F051C8T6TR	STM32F051K4T6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	8K x 8	8K x 8	8K x 8	8K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Data Converters	A/D 13x12b; D/A 1x12b	A/D 13x12b; D/A 1x12b	A/D 13x12b; D/A 1x12b	A/D 13x12b; D/A 1x12b
Base Product Number	STM32F051	STM32F051	STM32F051	STM32F051
Package / Case	32-LQFP	48-LQFP	48-LQFP	32-LQFP
Speed	48MHz	48MHz	48MHz	48MHz
Peripherals	DMA, I ² S, POR, PWM, WDT	DMA, I ² S, POR, PWM, WDT	DMA, I ² S, POR, PWM, WDT	DMA, I ² S, POR, PWM, WDT
Connectivity	HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART	HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART	HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART	HDMI-CEC, I ² C, IrDA, LINbus, SPI, UART/USART
Program Memory Size	16KB (16K x 8)	64KB (64K x 8)	64KB (64K x 8)	16KB (16K x 8)
Package	Tray	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Number of I/O	25	39	39	25
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Core Processor	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0
Supplier Device Package	32-LQFP (7x7)	48-LQFP (7x7)	48-LQFP (7x7)	32-LQFP (7x7)
Series	STM32F0	STM32F0	STM32F0	STM32F0
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
EEPROM Size	-	-	-	-

STM32F051K4T6 Datasheet PDF

Download STM32F051K4T6 pdf datasheets and STMicroelectronics documentation for STM32F051K4T6 - STMicroelectronics.

PCN Packaging

[Material Barrier Bag 17/Dec/2020.pdf](#)

PCN Assembly/Origin

[STM8/STM32 10/Mar/2020.pdf](#)

PCN Design/Specification



STM32F0 31/Mar/2017.pdf



MMS/15/9039 20/Jan/2015.pdf

HTML Datasheet



STM32F0zzz Programming Manual.pdf



STM32F051x4, x6, x8 Datasheet.pdf

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Recommended Products



STM32F051C8T7TR

STMicroelectronics
IC MCU 32BIT 64KB FLASH 48LQFP



STM32F051C8T6TR

STMicroelectronics
IC MCU 32BIT 64KB FLASH 48LQFP



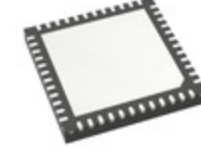
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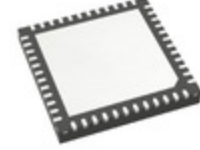
STM32F051C8U7S

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STM32F051C8U7

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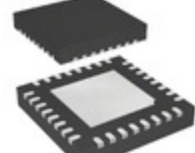
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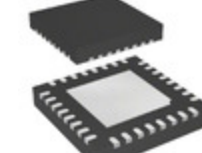
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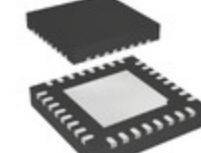
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STM32F051K6T6

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IC MCU 32BIT 32KB FLASH 32LQFP



STM32F051C8T6,32

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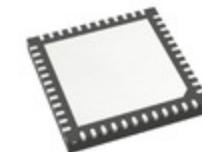
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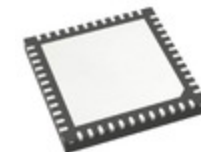
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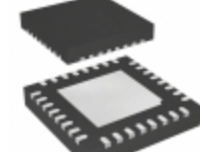
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STM32F051K6U6

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Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



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Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



Phone

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Email

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Certifications & Memberships



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