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See specifications for product details.



## STM32L051K8T6TR

Manufacturer Part Number	<b>STM32L051K8T6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32L051K8T6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 64KB FLASH 32LQFP
Package	32-LQFP
Data sheet	<a href="#">STM32L0 Series Programming Manual.pdf</a> <a href="#">STM32L051x6, x8 Datasheet.pdf</a>
RoHs Status	ROHS3 Compliant

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### Specifications

STM32L051K8T6TR Tech Specifications  
STM32L051K8T6TR - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	32-LQFP (7x7)	Number of I/O	27
Speed	32MHz	Mounting Type	Surface Mount
Series	STM32L0	EEPROM Size	2K x 8
RAM Size	8K x 8	Data Converters	A/D 10x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M0+
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, IrDA, SPI, UART/USART
Package / Case	32-LQFP	Base Product Number	STM32L051
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L051K8T6TR

Product Attribute				
Part Number	STM32L051K8T6TR	STM32L051C8T3	STM32L041F6P7	STM32L051K6U6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
RAM Size	8K x 8	8K x 8	8K x 8	8K x 8
Package / Case	32-LQFP	48-LQFP	20-TSSOP (0.173", 4.40mm Width)	32-UFQFN Exposed Pad
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Connectivity	I <sup>2</sup> C, IrDA, SPI, UART/USART	I <sup>2</sup> C, IrDA, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, IrDA, SPI, UART/USART
Data Converters	A/D 10x12b	A/D 10x12b	A/D 10x12b	A/D 10x12b
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Number of I/O	27	37	15	27
EEPROM Size	2K x 8	2K x 8	1K x 8	2K x 8
Base Product Number	STM32L051	STM32L051	STM32L041	STM32L051
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.8V ~ 3.6V	1.65V ~ 3.6V
Package	Tape & Reel (TR)	Tray	Tray	Tray
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Series	STM32L0	STM32L0	STM32L0	STM32L0
Speed	32MHz	32MHz	32MHz	32MHz
Oscillator Type	Internal	Internal	Internal	Internal
Supplier Device Package	32-LQFP (7x7)	48-LQFP (7x7)	20-TSSOP	32-UFQFPN (5x5)
Program Memory Size	64KB (64K x 8)	64KB (64K x 8)	32KB (32K x 8)	32KB (32K x 8)

### STM32L051K8T6TR Datasheet PDF

Download STM32L051K8T6TR pdf datasheets and STMicroelectronics documentation for STM32L051K8T6TR - STMicroelectronics.

#### PCN Packaging

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

#### PCN Assembly/Origin

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

## PCN Design/Specification



Datasheet Chg 07/Mar/2016.pdf



Die redesign/Mask set Chg 23/Feb/2016.pdf

## HTML Datasheet



STM32L0 Series Programming Manual.pdf



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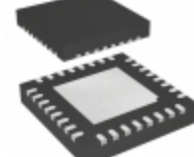
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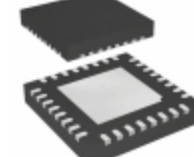
**STM32L051C8T3**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



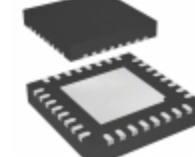
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**STM32L051K6U6**  
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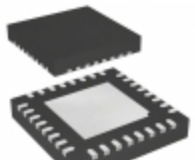
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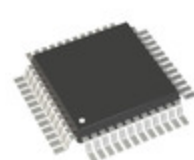
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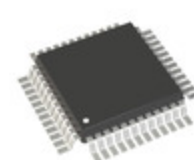
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IC MCU 32BIT 32KB FLASH 32UFQFPN



**STM32L051C8T7TR**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



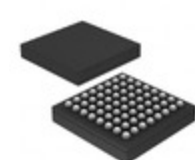
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IC MCU 32BIT 64KB FLASH 32LQFP



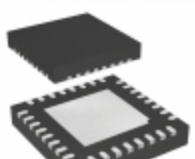
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IC MCU 32BIT 32KB FLASH 32LQFP



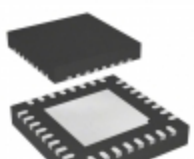
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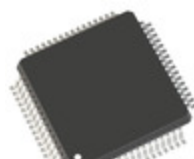
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**STM32L051K8U7**  
STMicroelectronics  
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**STM32L051K8U6DTR**  
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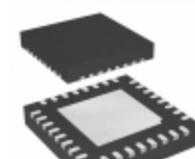
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IC MCU 32BIT 64KB FLASH 64LQFP



**STM32L051C6T6**  
STMicroelectronics  
IC MCU 32BIT 32KB FLASH 48LQFP



**STM32L051C8T6TR**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



**STM32L051K8U6TR**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 32UFQFPN

## 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.



## Your Faithful Supply Chain Partner -



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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