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See specifications for product details.



STM32L051K6U6TR

Manufacturer Part Number	STM32L051K6U6TR
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32L051K6U6TR
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 32KB FLASH 32UFQFPN
Package	32-UFQFN Exposed Pad
Data sheet	STM32L0 Series Programming Manual.pdf STM32L051x6, x8 Datasheet.pdf
RoHs Status	ROHS3 Compliant

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STM32L051K6U6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32L051K6U6TR datasheet/specifications on AllelcoElec.com.
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Specifications

STM32L051K6U6TR Tech Specifications
STM32L051K6U6TR - 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-UFQFPN (5x5)	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	32KB (32K x 8)	Core Processor	ARM® Cortex®-M0+
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Connectivity	I²C, IrDA, SPI, UART/USART
Package / Case	32-UFQFN Exposed Pad	Base Product Number	STM32L051
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L051K6U6TR

Product Attribute				
Part Number	STM32L051K6U6TR	STM32L051C6T6	STM32L051C8T3	STM32L031K6U6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Package / Case	32-UFQFN Exposed Pad	48-LQFP	48-LQFP	32-UFQFN Exposed Pad
Program Memory Size	32KB (32K x 8)	32KB (32K x 8)	64KB (64K x 8)	32KB (32K x 8)
Supplier Device Package	32-UFQFPN (5x5)	48-LQFP (7x7)	48-LQFP (7x7)	32-UFQFPN (5x5)
Connectivity	I²C, IrDA, SPI, UART/USART	I²C, IrDA, SPI, UART/USART	I²C, IrDA, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART
Oscillator Type	Internal	Internal	Internal	Internal
Series	STM32L0	STM32L0	STM32L0	STM32L0
RAM Size	8K x 8	8K x 8	8K x 8	8K x 8
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.8V ~ 3.6V
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Data Converters	A/D 10x12b	A/D 10x12b	A/D 10x12b	A/D 10x12b
Base Product Number	STM32L051	STM32L051	STM32L051	STM32L031
Speed	32MHz	32MHz	32MHz	32MHz
Number of I/O	27	37	37	27
EEPROM Size	2K x 8	2K x 8	2K x 8	1K x 8
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Package	Tape & Reel (TR)	Tray	Tray	Tape & Reel (TR)
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Program Memory Type	FLASH	FLASH	FLASH	FLASH

STM32L051K6U6TR Datasheet PDF

Download STM32L051K6U6TR pdf datasheets and STMicroelectronics documentation for STM32L051K6U6TR - STMicroelectronics.

PCN Packaging

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

PCN Assembly/Origin

STM8/STM32 10/Mar/2020.pdf

HTML Datasheet

STM32L0 Series Programming Manual.pdf

STM32L051x6, x8 Datasheet.pdf

PCN Design/Specification

MMS/15/9201 27/Apr/2015.pdf

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

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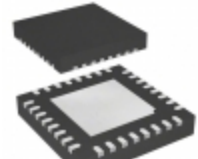
Recommended Products



STM32L051C6T6
STMicroelectronics
IC MCU 32BIT 32KB FLASH 48LQFP



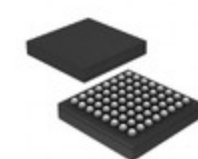
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STMicroelectronics
IC MCU 32BIT 64KB FLASH 48LQFP



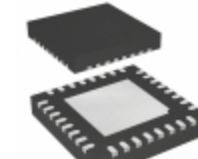
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STMicroelectronics
IC MCU 32BIT 32KB FLASH 32UFQFPN



STM32L051K8T6TR
STMicroelectronics
IC MCU 32BIT 64KB FLASH 32LQFP



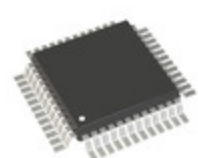
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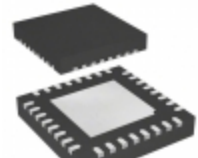
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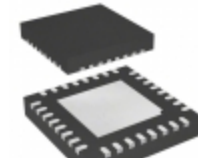
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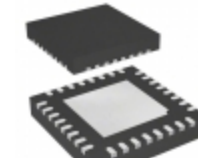
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IC MCU 32BIT 32KB FLASH 32LQFP



STM32L051K8U7
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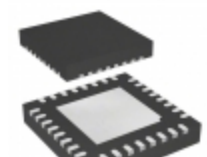
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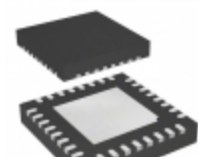
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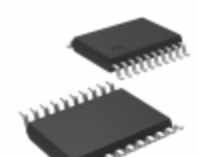
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IC MCU 32BIT 64KB FLASH 48LQFP



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STMicroelectronics
IC MCU 32BIT 32KB FLASH 32UFQFPN



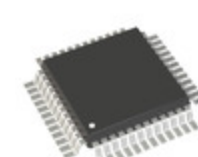
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IC MCU 32BIT 64KB FLASH 32UFQFPN



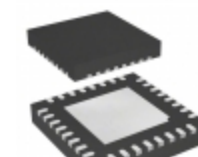
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IC MCU 32BIT 32KB FLASH 20TSSOP



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STMicroelectronics
IC MCU 32BIT 64KB FLASH 48LQFP



STM32L051K8T6
STMicroelectronics
IC MCU 32BIT 64KB FLASH 32LQFP



STM32L051K8U3
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
+00852 9146 4856
- Email
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Certifications & Memberships



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