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See specifications for product details.



## STM32L052K8U6TR

Manufacturer Part Number	<b>STM32L052K8U6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32L052K8U6TR
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 64KB FLASH 32UFQFPN
Package	32-UFQFN Exposed Pad
Data sheet	<b>STM32L0 Series Programming Manual.pdf</b> <b>STM32L052x6, x8 Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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STM32L052K8U6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32L052K8U6TR datasheet/specifications on AllelcoElec.com.  
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## Specifications

STM32L052K8U6TR Tech Specifications  
STM32L052K8U6TR - 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; D/A 1x12b
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	I²C, IrDA, SPI, UART/USART, USB
Package / Case	32-UFQFN Exposed Pad	Base Product Number	STM32L052
Package	Tape & Reel (TR)		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L052K8U6TR

Product Attribute				
Part Number	STM32L052K8U6TR	STM32L052C8T7	STM32L053R8T6	STM32L051T8Y6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Base Product Number	STM32L052	STM32L052	STM32L053	STM32L051
Package / Case	32-UFQFN Exposed Pad	48-LQFP	64-LQFP	36-UFBGA, WLCSP
Program Memory Size	64KB (64K x 8)	64KB (64K x 8)	64KB (64K x 8)	64KB (64K x 8)
Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT
Data Converters	A/D 10x12b; D/A 1x12b	A/D 10x12b; D/A 1x12b	A/D 16x12b; D/A 1x12b	A/D 10x12b
Package	Tape & Reel (TR)	Tray	Tray	Tape & Reel (TR)
Series	STM32L0	STM32L0	STM32L0	STM32L0
RAM Size	8K x 8	8K x 8	8K x 8	8K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	I²C, IrDA, SPI, UART/USART, USB	I²C, IrDA, SPI, UART/USART, USB	I²C, IrDA, SPI, UART/USART, USB	I²C, IrDA, SPI, UART/USART
Supplier Device Package	32-UFQFPN (5x5)	48-LQFP (7x7)	64-LQFP (10x10)	36-WLCSP
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Number of I/O	27	37	51	29
Speed	32MHz	32MHz	32MHz	32MHz
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.8V ~ 3.6V
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+

## STM32L052K8U6TR Datasheet PDF

Download STM32L052K8U6TR pdf datasheets and STMicroelectronics documentation for STM32L052K8U6TR - STMicroelectronics.

### PCN Packaging

2.73KHz.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

STM32L052x6, x8 Datasheet.pdf

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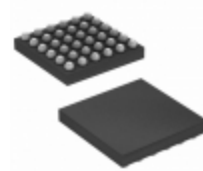
### Recommended Products



**STM32L052C8T7**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



**STM32L053R8T6**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 64LQFP



**STM32L051T8Y6TR**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 36WLCSFP



**STM32L053R6T6**  
STMicroelectronics  
IC MCU 32BIT 32KB FLASH 64LQFP



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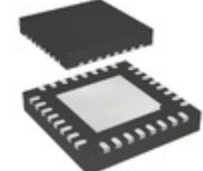
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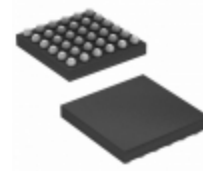
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**STM32L052C8T6D**  
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IC MCU 32BIT 64KB FLASH 48LQFP



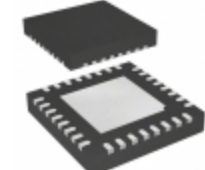
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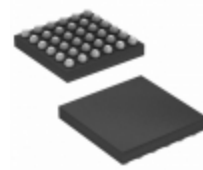
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IC MCU 32BIT 64KB FLASH 36WLCSFP



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IC MCU 32BIT 32KB FLASH 48LQFP



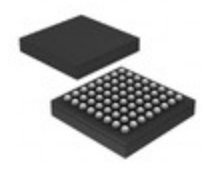
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**STM32L053R8T6TR**  
STMicroelectronics  
IC MCU 32BIT 64KB FLASH 64LQFP



**STM32L052R6H6**  
STMicroelectronics  
IC MCU 32BIT 32KB FLASH 64TFBGA



**STM32L052K6T6**  
STMicroelectronics  
IC MCU 32BIT 32KB FLASH 32LQFP

## 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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Contact us if you have any questions.

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