



Image may be representation.  
See specifications for product details.



## STM32L052R8T6

Manufacturer Part Number **STM32L052R8T6**

Manufacturer **STMicroelectronics**

Allelco Part Number **32D-STM32L052R8T6**

ECAD Model PCB Symbol, Footprint & 3D Model

Parts Description **IC MCU 32BIT 64KB FLASH 64LQFP**

Package **64-LQFP**

Data sheet **STM32L0 Series Programming Manual.pdf**

**STM32L052x6, x8 Datasheet.pdf**

RoHs Status **ROHS3 Compliant**

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STM32L052R8T6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32L052R8T6 datasheet/specifications on AllelcoElec.com.

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## Specifications

STM32L052R8T6 Tech Specifications

STM32L052R8T6 - 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	64-LQFP (10x10)	Number of I/O	51
Speed	32MHz	Mounting Type	Surface Mount
Series	STM32L0	EEPROM Size	2K x 8
RAM Size	8K x 8	Data Converters	A/D 16x12b; 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, I²S, POR, PWM, WDT	Connectivity	I²C, IrDA, SPI, UART/USART, USB
Package / Case	64-LQFP	Base Product Number	STM32L052
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L052R8T6

Product Attribute				
Part Number	STM32L052R8T6	STM32L052T8Y6TR	STM32L053C8T6	STM32L053R6T6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Oscillator Type	Internal	Internal	Internal	Internal
Number of I/O	51	29	37	51
RAM Size	8K x 8	8K x 8	8K x 8	8K x 8
Peripherals	Brown-out Detect/Reset, DMA, I²S, 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, LCD, POR, PWM, WDT
Connectivity	I²C, IrDA, SPI, UART/USART, USB	I²C, IrDA, SPI, UART/USART, USB	I²C, IrDA, SPI, UART/USART, USB	I²C, IrDA, SPI, UART/USART, USB
Package / Case	64-LQFP	36-UFPGA, WLCSP	48-LQFP	64-LQFP
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Package	Tray	Tape & Reel (TR)	Tray	Tray
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Supplier Device Package	64-LQFP (10x10)	36-WLCSP	48-LQFP (7x7)	64-LQFP (10x10)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Data Converters	A/D 16x12b; D/A 1x12b	A/D 16x12b; D/A 1x12b	A/D 10x12b; D/A 1x12b	A/D 16x12b; D/A 1x12b
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Speed	32MHz	32MHz	32MHz	32MHz
Series	STM32L0	STM32L0	STM32L0	STM32L0
Program Memory Size	64KB (64K x 8)	64KB (64K x 8)	64KB (64K x 8)	32KB (32K x 8)
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V
Base Product Number	STM32L052	STM32L052	STM32L053	STM32L053

## STM32L052R8T6 Datasheet PDF

Download STM32L052R8T6 pdf datasheets and STMicroelectronics documentation for STM32L052R8T6 - STMicroelectronics.

### PCN Packaging

2.73KHz.pdf

### PCN Assembly/Origin

STM8/STM32 10/Mar/2020.pdf

## HTML Datasheet

STM32L0 Series Programming Manual.pdf

STM32L052x6, x8 Datasheet.pdf

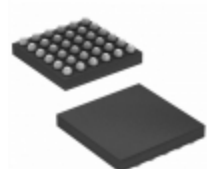
## PCN Design/Specification

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

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

## Customers Also Interested in

### Recommended Products



**STM32L052T8Y6TR**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 36WLCSP



**STM32L053C8T6**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



**STM32L053R6T6**

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 64LQFP



**STM32L052K6T6**

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IC MCU 32BIT 32KB FLASH 32LQFP



**STM32L053C8T6TR**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



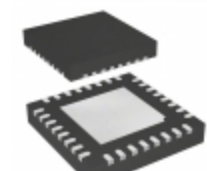
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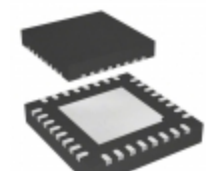
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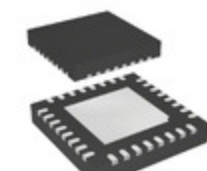
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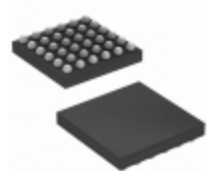
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**STM32L052K6U6**

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IC MCU 32BIT 32KB FLASH 32UFQFPN



**STM32L051T8Y6TR**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 36WLCSP



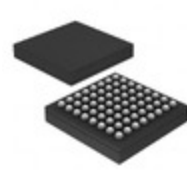
**STM32L052C8T6D**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



**STM32L052K8T6**

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IC MCU 32BIT 64KB FLASH 32LQFP



**STM32L052R6H6**

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 64TFBGA



**STM32L052C8T7**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



**STM32L063R8T6**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 64LQFP

## 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.



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