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See specifications for product details.



## STM32L052T8Y6TR

Manufacturer Part Number	<b>STM32L052T8Y6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32L052T8Y6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 64KB FLASH 36WLCSP
Package	36-UFBGA, WLCSP
Data sheet	<b>STM32L052x6, x8 Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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### Specifications

STM32L052T8Y6TR Tech Specifications  
STM32L052T8Y6TR - 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	36-WLCSP	Number of I/O	29
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, I <sup>2</sup> S, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, IrDA, SPI, UART/USART, USB
Package / Case	36-UFBGA, WLCSP	Base Product Number	STM32L052
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32L052T8Y6TR

Product Attribute				
Part Number	STM32L052T8Y6TR	<b>STM32L052R6H6</b>	<b>STM32L052R8T6</b>	<b>STM32L053C8T6</b>
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Oscillator Type	Internal	Internal	Internal	Internal
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
EEPROM Size	2K x 8	2K x 8	2K x 8	2K x 8
Package / Case	36-UFBGA, WLCSP	64-TFBGA	64-LQFP	48-LQFP
Core Processor	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+	ARM® Cortex®-M0+
Series	STM32L0	STM32L0	STM32L0	STM32L0
Connectivity	I <sup>2</sup> C, IrDA, SPI, UART/USART, USB	I <sup>2</sup> C, IrDA, SPI, UART/USART, USB	I <sup>2</sup> C, IrDA, SPI, UART/USART, USB	I <sup>2</sup> C, IrDA, SPI, UART/USART, USB
Voltage - Supply (Vcc/Vdd)	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V	1.65V ~ 3.6V
Package	Tape & Reel (TR)	Tray	Tray	Tray
Speed	32MHz	32MHz	32MHz	32MHz
Supplier Device Package	36-WLCSP	64-TFBGA (5x5)	64-LQFP (10x10)	48-LQFP (7x7)
Base Product Number	STM32L052	STM32L052	STM32L052	STM32L053
Data Converters	A/D 16x12b; D/A 1x12b	A/D 16x12b; D/A 1x12b	A/D 16x12b; D/A 1x12b	A/D 10x12b; D/A 1x12b
Peripherals	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	64KB (64K x 8)	32KB (32K x 8)	64KB (64K x 8)	64KB (64K x 8)
Number of I/O	29	51	51	37
Program Memory Type	FLASH	FLASH	FLASH	FLASH

### STM32L052T8Y6TR Datasheet PDF

Download STM32L052T8Y6TR pdf datasheets and STMicroelectronics documentation for STM32L052T8Y6TR - STMicroelectronics.

#### PCN Packaging


2.73KHz.pdf

#### PCN Design/Specification


Datasheet Chg 07/Mar/2016.pdf

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

## HTML Datasheet

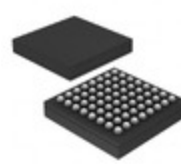




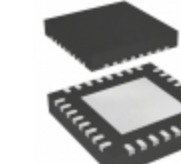




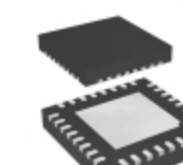
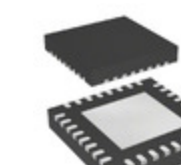






 STM32L052x6, x8 Datasheet.pdf

## PCN Assembly/Origin

 STM32L05/07/08 24/Sep/2019.pdf

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### Recommended Products

					
<b>STM32L052R6H6</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 64TFBGA	<b>STM32L052R8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 64LQFP	<b>STM32L053C8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L052C8T7</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L071C8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L052K8U6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 32UFQFPN
					
<b>STM32L052K8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 32LQFP	<b>STM32L053C6T6</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 48LQFP	<b>STM32L053R8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L053R8T6TR</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L052K8U6TR</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 32UFQFPN	<b>STM32L052K6U6</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN
					
<b>STM32L052C8T6D</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L052C8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L063R8T6</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 64LQFP	<b>STM32L053C8T6TR</b> STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	<b>STM32L053R6T6</b> STMicroelectronics IC MCU 32BIT 32KB FLASH 64LQFP	<b>STM32L052K6T6</b> 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

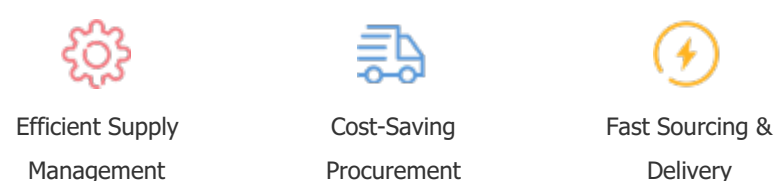
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### Payment Support

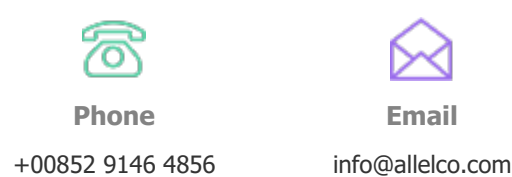
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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Contact us if you have any questions.



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