



Image may be representation.  
See specifications for product details.



## STM32F105R8T6TR

Manufacturer Part Number	<b>STM32F105R8T6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F105R8T6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 64KB FLASH 64LQFP
Package	64-LQFP
Data sheet	<b>STM32F105xx, 7xx.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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STM32F105R8T6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F105R8T6TR datasheet/specifications on AllelcoElec.com.  
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## Specifications

STM32F105R8T6TR Tech Specifications  
STM32F105R8T6TR - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-LQFP (10x10)	Number of I/O	51
Speed	72MHz	Mounting Type	Surface Mount
Series	STM32F1	EEPROM Size	-
RAM Size	64K x 8	Data Converters	A/D 16x12b; D/A 2x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	DMA, POR, PWM, Voltage Detect, WDT	Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG
Package / Case	64-LQFP	Base Product Number	STM32F105
Package	Tape & Reel (TR)		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F105R8T6TR

Product Attribute				
Part Number	STM32F105R8T6TR	<b>STM32F105R8T6TR</b>	<b>STM32F105R8T6</b>	<b>STM32F105V8T6</b>
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
EEPROM Size	-	-	-	-
Data Converters	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b	A/D 16x12b; D/A 2x12b
RAM Size	64K x 8	64K x 8	64K x 8	64K x 8
Base Product Number	STM32F105	STM32F105	STM32F105	STM32F105
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Supplier Device Package	64-LQFP (10x10)	64-LQFP (10x10)	-	-
Number of I/O	51	51	51	80
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tray	Tray
Program Memory Size	64KB (64K x 8)	128KB (128K x 8)	128KB (128K x 8)	64KB (64K x 8)
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
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Peripherals	DMA, POR, PWM, Voltage Detect, WDT	DMA, POR, PWM, Voltage Detect, WDT	DMA, POR, PWM, Voltage Detect, WDT	DMA, POR, PWM, Voltage Detect, WDT
Oscillator Type	Internal	Internal	Internal	Internal
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Speed	72MHz	72MHz	72MHz	72MHz
Series	STM32F1	STM32F1	STM32F1	STM32F1
Package / Case	64-LQFP	64-LQFP	64-LQFP	100-LQFP
Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

## STM32F105R8T6TR Datasheet PDF

Download STM32F105R8T6TR pdf datasheets and STMicroelectronics documentation for STM32F105R8T6TR - STMicroelectronics.

### PCN Packaging

2.73KHz.pdf

### PCN Design/Specification


Mult Dev 03/Nov/2022.pdf

Mult Dev Assembly Chg 2/Jul/2019.pdf

## HTML Datasheet

 STM32F105xx, 7xx.pdf

## PCN Assembly/Origin

 STM32F107 A/T 10/Jun/2021.pdf

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### Recommended Products



#### STM32F105RBT6TR

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 64LQFP



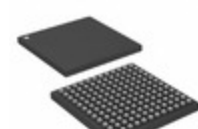
#### STM32F105RBT6

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 64LQFP



#### STM32F105V8T6

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 100LQFP



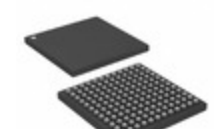
#### STM32F103ZGH6

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 144BGA



#### STM32F105RCT6TR

STMicroelectronics  
IC MCU 32BIT 256KB FLASH 64LQFP



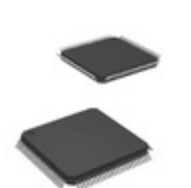
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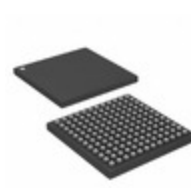
#### STM32F105RCT7

STMicroelectronics  
IC MCU 32BIT 256KB FLASH 64LQFP



#### STM32F105VCT6

STMicroelectronics  
IC MCU 32BIT 256KB FLASH 100LQFP



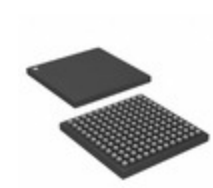
#### STM32F103ZFH6

STMicroelectronics  
IC MCU 32BIT 768KB FLSH 144LFBGA



#### STM32F103ZFT6

STMicroelectronics  
IC MCU 32BIT 768KB FLASH 144LQFP



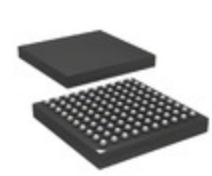
#### STM32F103ZFH6TR

STMicroelectronics  
IC MCU 32BIT 768KB FLSH 144LFBGA



#### STM32F103ZGT6TR

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 144LQFP



#### STM32F105VBH6

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 100BGA



#### STM32F105VBT6

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 100LQFP



#### STM32F105RCT6

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#### STM32F103ZET7

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IC MCU 32BIT 512KB FLASH 144LQFP



#### STM32F105R8T6

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.



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