



Image may be representation.  
See specifications for product details.



## STM32F031C6T6TR

Manufacturer Part Number	<b>STM32F031C6T6TR</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F031C6T6TR
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 32KB FLASH 48LQFP
Package	48-LQFP
Data sheet	<b>STM32F031x4, STM32F031x6 Datasheet.pdf</b> <b>STM32F0zzz Programming Manual.pdf</b>
RoHs Status	ROHS3 Compliant

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STM32F031C6T6TR - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F031C6T6TR datasheet/specifications on AllelcoElec.com.  
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### Specifications

STM32F031C6T6TR Tech Specifications  
STM32F031C6T6TR - 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	48-LQFP (7x7)	Number of I/O	39
Speed	48MHZ	Mounting Type	Surface Mount
Series	STM32F0	EEPROM Size	-
RAM Size	4K x 8	Data Converters	A/D 13x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	32KB (32K x 8)	Core Processor	ARM® Cortex®-M0
Peripherals	DMA, I²S, POR, PWM, WDT	Connectivity	I²C, IrDA, LINbus, SPI, UART/USART
Package / Case	48-LQFP	Base Product Number	STM32F031
Package	Tape & Reel (TR)		

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F031C6T6TR

Product Attribute				
Part Number	STM32F031C6T6TR	STM32F031F6P7	STM32F031F4P6	STM32F030R8T6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
RAM Size	4K x 8	4K x 8	4K x 8	8K x 8
Series	STM32F0	STM32F0	STM32F0	STM32F0
Package / Case	48-LQFP	20-TSSOP (0.173", 4.40mm Width)	20-TSSOP (0.173", 4.40mm Width)	64-LQFP
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
EEPROM Size	-	-	-	-
Supplier Device Package	48-LQFP (7x7)	20-TSSOP	20-TSSOP	-
Package	Tape & Reel (TR)	Tube	Tube	Tray
Oscillator Type	Internal	Internal	Internal	Internal
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Speed	48MHz	48MHz	48MHz	48MHz
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Peripherals	DMA, I²S, POR, PWM, WDT	DMA, I²S, POR, PWM, WDT	DMA, I²S, POR, PWM, WDT	DMA, POR, PWM, WDT
Base Product Number	STM32F031	STM32F031	STM32F031	STM32F030
Number of I/O	39	15	15	55
Data Converters	A/D 13x12b	A/D 12x12b	A/D 12x12b	A/D 18x12b
Connectivity	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, SPI, UART/USART
Program Memory Size	32KB (32K x 8)	32KB (32K x 8)	16KB (16K x 8)	64KB (64K x 8)
Core Processor	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2.4V ~ 3.6V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

### STM32F031C6T6TR Datasheet PDF

Download STM32F031C6T6TR pdf datasheets and STMicroelectronics documentation for STM32F031C6T6TR - STMicroelectronics.

#### PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

#### PCN Design/Specification

Mult Dev 03/Nov/2022.pdf


STM32F0 31/Mar/2017.pdf

## PCN Assembly/Origin

 STM8/STM32 10/Mar/2020.pdf

## HTML Datasheet

 STM32F031x4, STM32F031x6 Datasheet.pdf

 STM32F0zzz Programming Manual.pdf

## PCN Part Number

 MMS-MIC/14/8352 12/Mar/2014.pdf

## Customers Also Interested in

### Recommended Products



#### STM32F031F6P7

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 20TSSOP



#### STM32F031F4P6

STMicroelectronics  
IC MCU 32BIT 16KB FLASH 20TSSOP



#### STM32F030R8T6

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 64LQFP



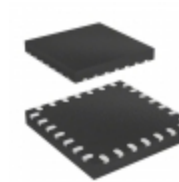
#### STM32F030R8T6,32

STMicroelectronics



#### STM32F031F6P6TR

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IC MCU 32BIT 32KB FLASH 20TSSOP



#### STM32F031G4U7

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IC MCU 32BIT 16KB FLASH 28UFQFPN



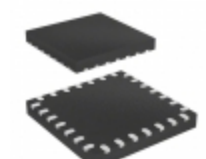
#### STM32F031F6P6,32

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#### STM32F031F6P6

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#### STM32F031G4U6

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IC MCU 32BIT 16KB FLASH 28UFQFPN



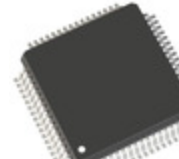
#### STM32F031C6T7

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IC MCU 32BIT 32KB FLASH 48TQFP



#### STM32F031F4P7

STMicroelectronics  
IC MCU 32BIT 16KB FLASH 20TSSOP



#### STM32F030R8T6TR

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IC MCU 32BIT 256KB FLASH 64LQFP



#### STM32F031C4T6

STMicroelectronics  
IC MCU 32BIT 16KB FLASH 48LQFP



#### STM32F030R8T6

STMicroelectronics  
IC MCU 32BIT 256KB FLASH 64LQFP



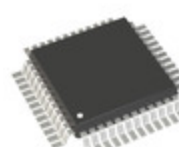
#### STM32F031E6Y6TR

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 25WLCSFP



#### STM32F031C6T6

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 48LQFP



#### STM32F030K6T6TR

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 32LQFP



#### STM32F030R8T6TR

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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## Certifications & Memberships



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