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See specifications for product details.



## STM32F031C6T7

Manufacturer Part Number	<b>STM32F031C6T7</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F031C6T7
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 32BIT 32KB FLASH 48TQFP
Package	48-LQFP
Data sheet	<b>STM32F031x4, STM32F031x6 Datasheet.pdf</b> <b>STM32F0zzz Programming Manual.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

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## Specifications

STM32F031C6T7 Tech Specifications

STM32F031C6T7 - 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 ~ 105°C (TA)
Supplier Device Package	48-TQFP (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, I <sup>2</sup> S, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Package / Case	48-LQFP	Base Product Number	STM32F031
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F031C6T7

Product Attribute				
Part Number	STM32F031C6T7	STM32F031E6Y6TR	STM32F031F6P6	STM32F031C6T6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	48-LQFP	25-UFBGA, WLCSP	20-TSSOP (0.173", 4.40mm Width)	48-LQFP
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Base Product Number	STM32F031	STM32F031	STM32F031	STM32F031
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Data Converters	A/D 13x12b	A/D 13x12b	A/D 12x12b	A/D 13x12b
Package	Tray	Tape & Reel (TR)	Tube	Tray
Connectivity	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
EEPROM Size	-	-	-	-
Core Processor	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0	ARM® Cortex®-M0
Supplier Device Package	48-TQFP (7x7)	25-WLCSP	20-TSSOP	48-LQFP (7x7)
Series	STM32F0	STM32F0	STM32F0	STM32F0
Number of I/O	39	20	15	39
Speed	48MHz	48MHz	48MHz	48MHz
Peripherals	DMA, I <sup>2</sup> S, POR, PWM, WDT	DMA, I <sup>2</sup> S, POR, PWM, WDT	DMA, I <sup>2</sup> S, POR, PWM, WDT	DMA, I <sup>2</sup> S, POR, PWM, WDT
Program Memory Size	32KB (32K x 8)	32KB (32K x 8)	32KB (32K x 8)	32KB (32K x 8)
RAM Size	4K x 8	4K x 8	4K x 8	4K x 8

## STM32F031C6T7 Datasheet PDF

Download STM32F031C6T7 pdf datasheets and STMicroelectronics documentation for STM32F031C6T7 - 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



#### STM32F031E6Y6TR

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 25WLCSP



#### STM32F031F6P6

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 20TSSOP



#### STM32F031C6T6

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 48LQFP



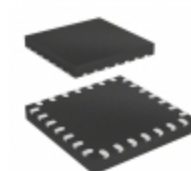
#### STM32F031C6T6TR

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IC MCU 32BIT 32KB FLASH 48LQFP



#### STM32F030R8T6

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 64LQFP



#### STM32F031G6U6

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IC MCU 32BIT 32KB FLASH 28UFQFN



#### STM32F030R8T6,32

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#### STM32F030R8T6

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IC MCU 32BIT 256KB FLASH 64LQFP



#### STM32F031F4P7

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#### STM32F031F6P7

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IC MCU 32BIT 32KB FLASH 20TSSOP



#### STM32F030R8T6TR

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#### STM32F031F4P6

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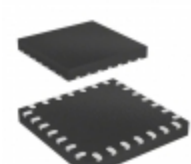
#### STM32F031F6P6TR

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IC MCU 32BIT 32KB FLASH 20TSSOP



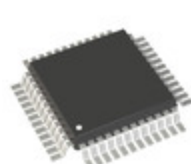
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IC MCU 32BIT 256KB FLASH 64LQFP



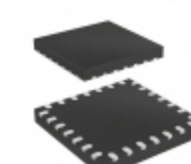
#### STM32F031G4U6

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IC MCU 32BIT 16KB FLASH 28UFQFPN



#### STM32F030K6T6TR

STMicroelectronics  
IC MCU 32BIT 32KB FLASH 32LQFP



#### STM32F031G4U7

STMicroelectronics  
IC MCU 32BIT 16KB FLASH 28UFQFPN



#### STM32F031C4T6

STMicroelectronics  
IC MCU 32BIT 16KB FLASH 48LQFP

## 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.

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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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