STM32F100C6T6B

Manufacturer Part Number	STM32F100C6T6B
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32F100C6T6B
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 32KB FLASH 48LQFP
Package	48-LQFP
Data sheet	STM32F100C6T6B.pdf
RoHs Status	ROHS3 Compliant

Image may be representation.
See specifications for product details.

Get a Quote

STM32F100C6T6B - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F100C6T6B datasheet/specifications on AllelcoElec.com.
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Specifications

STM32F100C6T6B Tech Specifications
STM32F100C6T6B - 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)
Speed	24MHz	Number of I/O	37
Series	STM32F1	Mounting Type	Surface Mount
RAM Size	4K x 8	EEPROM Size	-
Program Memory Type	FLASH	Data Converters	A/D 10x12b; D/A 2x12b
Program Memory Size	32KB (32K x 8)	Core Size	32-Bit Single-Core
Peripherals	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	Core Processor	ARM® Cortex®-M3
Package / Case	48-LQFP	Connectivity	I²C, IrDA, LINbus, SPI, UART/USART
Package	Tray	Base Product Number	STM32F100

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F100C6T6B

Product Attribute				
Part Number	STM32F100C6T6B	STM32F100C4T6B	STM32F100C8T7B	STM32F091VCH6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Package	Tray	Tray	Tray	Tray
Package / Case	48-LQFP	48-LQFP	48-LQFP	100-UFBGA
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)
Series	STM32F1	STM32F1	STM32F1	STM32F0
Program Memory Size	32KB (32K x 8)	16KB (16K x 8)	64KB (64K x 8)	256KB (256K x 8)
Base Product Number	STM32F100	STM32F100	STM32F100	STM32F091
Peripherals	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, I²S, POR, PWM, WDT
EEPROM Size	-	-	-	-
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M0
Data Converters	A/D 10x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b	A/D 10x12b; D/A 2x12b	A/D 19x12b; D/A 2x12b
Oscillator Type	Internal	Internal	Internal	Internal
Connectivity	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	I²C, IrDA, LINbus, SPI, UART/USART	CANbus, I²C, IrDA, LINbus, SPI, UART/USART
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Number of I/O	37	37	37	88
RAM Size	4K x 8	4K x 8	8K x 8	32K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	24MHz	24MHz	24MHz	48MHz
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core

STM32F100C6T6B Datasheet PDF

Download STM32F100C6T6B pdf datasheets and STMicroelectronics documentation for STM32F100C6T6B - STMicroelectronics.

PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

Box Label Chg 28/Jul/2016.pdf
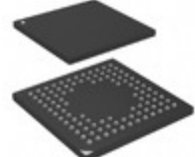
PCN Design/Specification

Mult Dev 03/Nov/2022.pdf

LQFP 48 7x7 Products Increased Capacity 21/Dec/201.pdf

PCN Assembly/Origin

STM8/STM32 10/Mar/2020.pdf

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Recommended Products

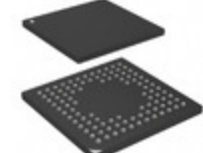|		
STM32F100C4T6B STMicroelectronics IC MCU 32BIT 16KB FLASH 48LQFP	**STM32F100C8T7B** STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	**STM32F091VCH6** STMicroelectronics IC MCU 32BIT 256KB FLSH 100UFBGA
STM32F098RCH6 STMicroelectronics IC MCU 32BIT 256KB FLASH 64UFBGA	**STM32F091VCT6** STMicroelectronics IC MCU 32BIT 256KB FLASH 100LQFP	**STM32F100C8T6B.** STMicroelectronics
STM32F100B6GK STMicroelectronics	**STM32F100B6** STMicroelectronics	**STM32F100CBT6BTR** STMicroelectronics IC MCU 32BIT 128KB FLASH 48LQFP
STM32F100C6T7B STMicroelectronics IC MCU 32BIT 32KB FLASH 48LQFP	**STM32F100CBT7B** STMicroelectronics IC MCU 32BIT 128KB FLASH 48LQFP	**STM32F100C6T6BTR** STMicroelectronics IC MCU 32BIT 32KB FLASH 48LQFP
STM32F100C6T6 STMicroelectronics	**STM32F100C8T6BTR** STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP	**STM32F100C8T6B** STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP
STM32F091VCH7 STMicroelectronics IC MCU 32BIT 256KB FLSH 100UFBGA	**STM32F100CBT6B** STMicroelectronics IC MCU 32BIT 128KB FLASH 48LQFP	**STM32F091VCT7TR** STMicroelectronics IC MCU 32BIT 256KB FLSH 100LFQFP

◼ 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.

EAST WEST BANK · MasterCard · VISA · WESTERN UNION · 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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Certifications & Memberships

ISO MEDICAL DEVICES ISO 13485:2016 QUALITY MANAGEMENT · ISO CERTIFIED COMPANY 9001:2015 · ISO CERTIFIED COMPANY 14001:2015

ISO 28000:2007 · IPC Member · SMTA Surface Mount Technology Association

View More

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