



Image may be representation.  
See specifications for product details.



## STM32F103VBT7

Manufacturer Part Number	<b>STM32F103VBT7</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STM32F103VBT7
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 128KB FLASH 100LQFP
Package	100-LQFP
Data sheet	<b>STM32F103x(8,B) Datasheet.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STM32F103VBT7 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F103VBT7 datasheet/specifications on AllelcoElec.com.  
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## Specifications

STM32F103VBT7 Tech Specifications

STM32F103VBT7 - 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	100-LQFP (14x14)	Number of I/O	80
Speed	72MHz	Mounting Type	Surface Mount
Series	STM32F1	EEPROM Size	-
RAM Size	20K x 8	Data Converters	A/D 16x12b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	128KB (128K x 8)	Core Processor	ARM® Cortex®-M3
Peripherals	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB
Package / Case	100-LQFP	Base Product Number	STM32F103
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F103VBT7

Product Attribute				
Part Number	STM32F103VBT7	STM32F103VBT6TR	STM32F103VBI6	STM32F103VCT6TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	128KB (128K x 8)	128KB (128K x 8)	128KB (128K x 8)	256KB (256K x 8)
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	100-UFBGA (7x7)	100-LQFP (14x14)
Package / Case	100-LQFP	100-LQFP	100-UFBGA	100-LQFP
Package	Tray	Tape & Reel (TR)	Tray	Tape & Reel (TR)
Data Converters	A/D 16x12b	A/D 16x12b	A/D 16x12b	A/D 16x12b; D/A 2x12b
Peripherals	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT	DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT
EEPROM Size	-	-	-	-
Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB
Core Processor	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3	ARM® Cortex®-M3
Series	STM32F1	STM32F1	STM32F1	STM32F1
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
RAM Size	20K x 8	20K x 8	20K x 8	48K x 8
Number of I/O	80	80	80	80
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Voltage - Supply (Vcc/Vdd)	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V	2V ~ 3.6V
Oscillator Type	Internal	Internal	Internal	Internal
Base Product Number	STM32F103	STM32F103	STM32F103	STM32F103
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Speed	72MHz	72MHz	72MHz	72MHz

## STM32F103VBT7 Datasheet PDF

Download STM32F103VBT7 pdf datasheets and STMicroelectronics documentation for STM32F103VBT7 - STMicroelectronics.

### Datasheets

STM32F103x(8,B) Datasheet.pdf

### PCN Packaging

Material Barrier Bag 17/Dec/2020.pdf

### PCN Assembly/Origin

Mult Dev 01/Mar/2021.pdf

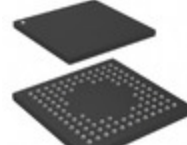
### PCN Design/Specification

Mult Dev 03/Nov/2022.pdf

STM32Fx 24/Jun/2022.pdf

## Customers Also Interested in

### Recommended Products



**STM32F103VBT6,32**

STMicroelectronics

**STM32F103VBT6TR**

STMicroelectronics  
IC MCU 32BIT 128KB FLASH  
100LQFP

**STM32F103VCH6,32**

STMicroelectronics

**STM32F103VBI6**

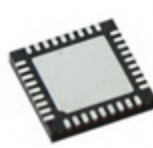
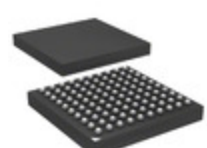
STMicroelectronics  
IC MCU 32BIT 128KB FLSH  
100UFBGA

**STM32F103VCT6TR**

STMicroelectronics  
IC MCU 32BIT 256KB FLASH  
100LQFP

**STM32F103VCT6,32**

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**STM32F103VDH6**

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IC MCU 32BIT 384KB FLSH  
100LFBGA

**STM32F103T8U7TR**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH  
36VQFPN

**STM32F103VDT6TR**

STMicroelectronics  
IC MCU 32BIT 384KB FLASH  
100LQFP

**STM32F103VBH6,32**

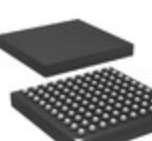
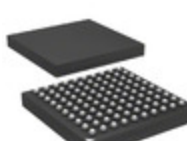
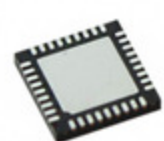
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**STM32F103V8T6**

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 100LQFP

**STM32F103VBI6,32**

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**STM32F103TBU6**

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IC MCU 32BIT 128KB FLSH  
36VQFPN

**STM32F103VDT6**

STMicroelectronics  
IC MCU 32BIT 384KB FLASH  
100LQFP

**STM32F103VCT6**

STMicroelectronics  
IC MCU 32BIT 256KB FLASH  
100LQFP

**STM32F103VBH6**

STMicroelectronics  
IC MCU 32BIT 128KB FLASH 100BGA

**STM32F103VCH6**

STMicroelectronics  
IC MCU 32BIT 256KB FLSH  
100LFBGA

**STM32F103VBT6**

STMicroelectronics  
IC MCU 32BIT 128KB FLASH  
100LQFP

## 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.



### 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



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