



Image may be representation.  
See specifications for product details.



## STM32F103RBT6

|                          |   |
|--------------------------|---|
| Manufacturer Part Number | <a href="#">STM32F103RBT6</a>                 |
| Manufacturer             | <a href="#">STMicroelectronics</a>            |
| Allelco Part Number      | 32D-STM32F103RBT6                             |
| ECAD Model               | PCB Symbol, Footprint & 3D Mode               |
| Parts Description        | IC MCU 32BIT 128KB FLASH 64LQFP               |
| Package                  | 64-LQFP                                       |
| Data sheet               | <a href="#">STM32F103x(8,B) Datasheet.pdf</a> |
| RoHs Status              | ROHS3 Compliant                               |

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STM32F103RBT6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F103RBT6 datasheet/specifications on AllelcoElec.com.  
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## Specifications

STM32F103RBT6 Tech Specifications

STM32F103RBT6 - 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                      | 72MHz  | Number of I/O         | 51   |
| Series                     | STM32F1  | Mounting Type         | Surface Mount  |
| RAM Size                   | 20K x 8  | EEPROM Size           | -  |
| Program Memory Type        | FLASH  | Data Converters       | A/D 16x12b   |
| Program Memory Size        | 128KB (128K x 8)   | Core Size             | 32-Bit Single-Core   |
| Peripherals                | DMA, Motor Control PWM, PDR, POR, PVD, PWM, Temp Sensor, WDT | Core Processor        | ARM® Cortex®-M3  |
| Package / Case             | 64-LQFP  | Connectivity          | CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB |
| Package                    | Tray   | Base Product Number   | STM32F103  |

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F103RBT6

| Product Attribute          |  |  |  |  |
|----------------------------|--|--|--|--|
| Part Number                | STM32F103RBT6  | <a href="#">STM32F103RBT6</a>                                | <a href="#">STM32F103RBT6</a>                                | <a href="#">STM32F103RBT6</a>                                |
| Manufacturer               | STMicroelectronics   | STMicroelectronics   | STMicroelectronics   | STMicroelectronics   |
| Operating Temperature      | -40°C ~ 85°C (TA)  | -40°C ~ 85°C (TA)  | -40°C ~ 105°C (TA)   | -40°C ~ 105°C (TA)   |
| Core Size                  | 32-Bit Single-Core   | 32-Bit Single-Core   | 32-Bit Single-Core   | 32-Bit Single-Core   |
| Core Processor             | ARM® Cortex®-M3  | ARM® Cortex®-M3  | ARM® Cortex®-M3  | ARM® Cortex®-M3  |
| Voltage - Supply (Vcc/Vdd) | 2V ~ 3.6V  | 2V ~ 3.6V  | 2V ~ 3.6V  | 2V ~ 3.6V  |
| Package                    | Tray   | Tape & Reel (TR)   | Tray   | Tray   |
| Program Memory Size        | 128KB (128K x 8)   | 256KB (256K x 8)   | 64KB (64K x 8)   | 128KB (128K x 8)   |
| Number of I/O              | 51   | 51   | 51   | 51   |
| Data Converters            | A/D 16x12b   | A/D 16x12b; D/A 2x12b  | A/D 16x12b   | A/D 16x12b   |
| Program Memory Type        | FLASH  | FLASH  | FLASH  | FLASH  |
| Speed                      | 72MHz  | 72MHz  | 72MHz  | 72MHz  |
| Base Product Number        | STM32F103  | STM32F103  | STM32F103  | STM32F103  |
| Mounting Type              | Surface Mount  | Surface Mount  | Surface Mount  | Surface Mount  |
| RAM Size                   | 20K x 8  | 48K x 8  | 20K x 8  | 20K x 8  |
| Package / Case             | 64-LQFP  | 64-LQFP  | 64-LQFP  | 64-TFBGA   |
| Series                     | STM32F1  | STM32F1  | STM32F1  | STM32F1  |
| Oscillator Type            | Internal   | Internal   | Internal   | Internal   |
| EEPROM Size                | -  | -  | -  | -  |
| 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 |
| 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 |

## STM32F103RBT6 Datasheet PDF

Download STM32F103RBT6 pdf datasheets and STMicroelectronics documentation for STM32F103RBT6 - STMicroelectronics.

### Datasheets

[STM32F103x\(8,B\) Datasheet.pdf](#)

### PCN Packaging

[Material Barrier Bag 17/Dec/2020.pdf](#)


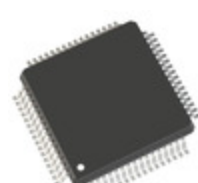

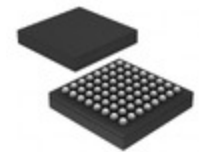



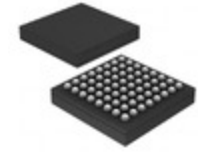




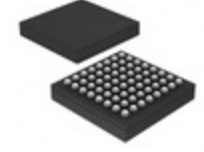

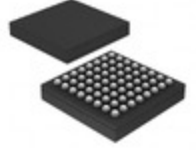



### PCN Design/Specification

PCN Assembly/Origin

STM8/STM32 10/Mar/2020.pdf

Customers Also Interested in

Recommended Products

|   |   |   |  |   |   |
|---|---|---|--|---|---|
|    |    |    |    |    |    |
| <b>STM32F103RCT6TR</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 64LQFP     | <b>STM32F103R8T7</b><br>STMicroelectronics<br>IC MCU 32BIT 64KB FLASH 64LQFP        | <b>STM32F103RBT6B</b><br>STMicroelectronics   | <b>STM32F103RBH7</b><br>STMicroelectronics<br>IC MCU 32BIT 128KB FLASH 64BGA         | <b>STM32F103RBT7TR</b><br>STMicroelectronics<br>IC MCU 32BIT 128KB FLASH 64LQFP       | <b>STM32F103RBT7</b><br>STMicroelectronics<br>IC MCU 32BIT 128KB FLASH 64LQFP         |
|    |    |    |    |    |    |
| <b>STM32F103RBH6,32</b><br>STMicroelectronics                                       | <b>STM32F103RBH6TR</b><br>STMicroelectronics<br>IC MCU 32BIT 128KB FLASH 64TFBGA    | <b>STM32F103RBT6B</b><br>STMicroelectronics   | <b>STM32F103RBT6,32</b><br>STMicroelectronics  | <b>STM32F103RBT6TR</b><br>STMicroelectronics<br>IC MCU 32BIT 128KB FLASH 64LQFP       | <b>STM32F103RBT6,32</b><br>STMicroelectronics   |
|  |  |  |  |  |  |
| <b>STM32F103R8H7</b><br>STMicroelectronics<br>IC MCU 32BIT 64KB FLASH 64TFBGA       | <b>STM32F103RCT6</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 64LQFP       | <b>STM32F103RBH6</b><br>STMicroelectronics<br>IC MCU 32BIT 128KB FLASH 64BGA        | <b>STM32F103R8T6TR</b><br>STMicroelectronics<br>IC MCU 32BIT 64KB FLASH 64LQFP       | <b>STM32F103RCT7</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 64LQFP         | <b>STM32F103R8T6</b><br>STMicroelectronics<br>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.



Your Faithful Supply Chain Partner -

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|--|--|---|
| <br>Efficient Supply Management | <br>Cost-Saving Procurement | <br>Fast Sourcing & Delivery |
|--|--|---|

Contact us if you have any questions.

|  |  |
|--|--|
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|--|--|

Certifications & Memberships



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