



Image may be representation.  
See specifications for product details.



## STM32F101VBT6

|                          |                                     |
|--------------------------|-------------------------------------|
| Manufacturer Part Number | <b>STM32F101VBT6</b>                |
| Manufacturer             | <b>STMicroelectronics</b>           |
| Allelco Part Number      | 32D-STM32F101VBT6                   |
| ECAD Model               | PCB Symbol, Footprint & 3D Model    |
| Parts Description        | IC MCU 32BIT 128KB FLASH 100LQFP    |
| Package                  | 100-LQFP                            |
| Data sheet               | <b>STM32F101x8, STM32F101xB.pdf</b> |
| RoHs Status              | <b>ROHS3 Compliant</b>              |

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STM32F101VBT6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F101VBT6 datasheet/specifications on AllelcoElec.com.  
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## Specifications

STM32F101VBT6 Tech Specifications

STM32F101VBT6 - 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    | 100-LQFP (14x14)                          | Number of I/O         | 80                                 |
| Speed                      | 36MHz                                     | Mounting Type         | Surface Mount                      |
| Series                     | STM32F1                                   | EEPROM Size           | -                                  |
| RAM Size                   | 16K 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, PDR, POR, PVD, PWM, Temp Sensor, WDT | Connectivity          | I²C, IrDA, LINbus, SPI, UART/USART |
| Package / Case             | 100-LQFP                                  | Base Product Number   | STM32F101                          |
| Package                    | Tray                                      |                       |                                    |

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F101VBT6

| Product Attribute          |   |   |   |   |
|----------------------------|---|---|---|---|
| Part Number                | STM32F101VBT6                             | STM32F101T4U6A                            | STM32F101T6U6A                            | STM32F101V8T6                             |
| Manufacturer               | STMicroelectronics                        | STMicroelectronics                        | STMicroelectronics                        | STMicroelectronics                        |
| Number of I/O              | 80  | 26  | 26  | 80  |
| Program Memory Type        | FLASH                                     | FLASH                                     | FLASH                                     | FLASH                                     |
| Package                    | Tray                                      | Tray                                      | Tray                                      | Tray                                      |
| Core Processor             | ARM® Cortex®-M3                           | ARM® Cortex®-M3                           | ARM® Cortex®-M3                           | ARM® Cortex®-M3                           |
| Speed                      | 36MHz                                     | 36MHz                                     | 36MHz                                     | 36MHz                                     |
| Core Size                  | 32-Bit Single-Core                        | 32-Bit Single-Core                        | 32-Bit Single-Core                        | 32-Bit Single-Core                        |
| Series                     | STM32F1                                   | STM32F1                                   | STM32F1                                   | STM32F1                                   |
| Oscillator Type            | Internal                                  | Internal                                  | Internal                                  | Internal                                  |
| Mounting Type              | Surface Mount                             | Surface Mount                             | Surface Mount                             | Surface Mount                             |
| Voltage - Supply (Vcc/Vdd) | 2V ~ 3.6V                                 | 2V ~ 3.6V                                 | 2V ~ 3.6V                                 | 2V ~ 3.6V                                 |
| Package / Case             | 100-LQFP                                  | 36-VFQFN Exposed Pad                      | 36-VFQFN Exposed Pad                      | 100-LQFP                                  |
| Connectivity               | I²C, IrDA, LINbus, SPI, UART/USART        | I²C, IrDA, LINbus, SPI, UART/USART        | I²C, IrDA, LINbus, SPI, UART/USART        | I²C, IrDA, LINbus, SPI, UART/USART        |
| Data Converters            | A/D 16x12b                                | A/D 10x12b                                | A/D 10x12b                                | A/D 16x12b                                |
| Program Memory Size        | 128KB (128K x 8)                          | 16KB (16K x 8)                            | 32KB (32K x 8)                            | 64KB (64K x 8)                            |
| Operating Temperature      | -40°C ~ 85°C (TA)                         | -40°C ~ 85°C (TA)                         | -40°C ~ 85°C (TA)                         | -40°C ~ 85°C (TA)                         |
| Base Product Number        | STM32F101                                 | STM32F101                                 | STM32F101                                 | STM32F101                                 |
| Supplier Device Package    | 100-LQFP (14x14)                          | 36-VFQFPN (6x6)                           | 36-VFQFPN (6x6)                           | 100-LQFP (14x14)                          |
| 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, PDR, POR, PVD, PWM, Temp Sensor, WDT |
| RAM Size                   | 16K x 8                                   | 4K x 8                                    | 6K x 8                                    | 10K x 8                                   |
| EEPROM Size                | -   | -   | -   | -   |

## STM32F101VBT6 Datasheet PDF


Download STM32F101VBT6 pdf datasheets and STMicroelectronics documentation for STM32F101VBT6 - STMicroelectronics.

### PCN Packaging

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


### PCN Assembly/Origin

[Mult Dev 01/Mar/2021.pdf](#)

 Mult Dev 03/Nov/2022.pdf

 STM32Fx 24/Jun/2022.pdf

HTML Datasheet

 STM32F101x8, STM32F101xB.pdf

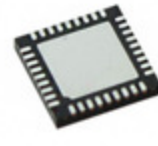
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**STM32F101T4U6A**

STMicroelectronics  
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36VQFPN



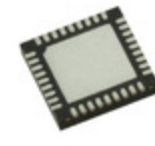
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IC MCU 32BIT 32KB FLASH  
36VQFPN



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**STM32F101ZDT6**

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IC MCU 32BIT 384KB FLASH  
144LQFP



**STM32F101VDT6**

STMicroelectronics  
IC MCU 32BIT 384KB FLASH  
100LQFP



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STMicroelectronics  
IC MCU 32BIT 64KB FLASH  
36VQFPN



**STM32F101VCT6**

STMicroelectronics  
IC MCU 32BIT 256KB FLASH  
100LQFP



**STM32F101VFT6**

STMicroelectronics  
IC MCU 32BIT 768KB FLASH  
100LQFP



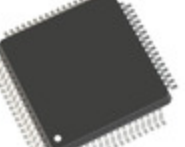
**STM32F101T8U6,32**

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**STM32F101RFT6**

STMicroelectronics  
IC MCU 32BIT 768KB FLASH 64LQFP



**STM32F101RGT6TR**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 64LQFP



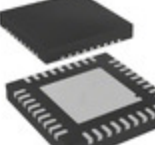
**STM32F101RGT6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 64LQFP



**STM32F101VGT6**

STMicroelectronics  
IC MCU 32BIT 1MB FLASH 100LQFP



**STM32F101TBU6**

STMicroelectronics  
IC MCU 32BIT 128KB FLSH  
36VQFPN



**STM32F101VET6**

STMicroelectronics  
IC MCU 32BIT 512KB FLASH  
100LQFP



**STM32F101VCT6TR**

STMicroelectronics  
IC MCU 32BIT 256KB FLASH  
100LQFP



**STM32F101ZCT6**

STMicroelectronics  
IC MCU 32BIT 256KB FLASH  
144LQFP

**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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PayPal.



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-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

**Contact us if you have any questions.**

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