

Image may be representation.  
See specifications for product details.



## STM32F072CBT7

Manufacturer Part Number **STM32F072CBT7**

Manufacturer **STMicroelectronics**

Allelco Part Number **32D-STM32F072CBT7**

ECAD Model PCB Symbol, Footprint & 3D Mode

Parts Description **IC MCU 32BIT 128KB FLASH 48LQFP**

Package **48-LQFP**

Data sheet **STM32F0zzz Programming Manual.pdf**

**STM32F072x8, STM32F072xB.pdf**

RoHs Status **ROHS3 Compliant**

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## Specifications

STM32F072CBT7 Tech Specifications

STM32F072CBT7 - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute          | Attribute Value                      | Product Attribute     | Attribute Value  |
|----------------------------|--------------------------------------|-----------------------|--|
| Manufacturer               | STMicroelectronics                   | Oscillator Type       | Internal   |
| Voltage - Supply (Vcc/Vdd) | 1.65V ~ 3.6V                         | Operating Temperature | -40°C ~ 105°C (TA)   |
| Supplier Device Package    | 48-LQFP (7x7)                        | Number of I/O         | 37   |
| Speed                      | 48MHz                                | Mounting Type         | Surface Mount  |
| Series                     | STM32F0                              | EEPROM Size           | -  |
| RAM Size                   | 16K x 8                              | Data Converters       | A/D 10x12b; D/A 2x12b  |
| Program Memory Type        | FLASH                                | Core Size             | 32-Bit Single-Core   |
| Program Memory Size        | 128KB (128K x 8)                     | Core Processor        | ARM® Cortex®-M0  |
| Peripherals                | DMA, I <sup>2</sup> S, POR, PWM, WDT | Connectivity          | CANbus, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB |
| Package / Case             | 48-LQFP                              | Base Product Number   | STM32F072  |
| Package                    | Tray                                 |                       |  |

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F072CBT7

| Product Attribute          |  |  |  |  |
|----------------------------|--|--|--|--|
| Part Number                | STM32F072CBT7  | STM32F072CBY7TR  | STM32F072CBU6TR  | STM32F072C8T6  |
| Manufacturer               | STMicroelectronics   | STMicroelectronics   | STMicroelectronics   | STMicroelectronics   |
| RAM Size                   | 16K x 8  | 16K x 8  | 16K x 8  | 16K x 8  |
| Number of I/O              | 37   | 37   | 37   | 37   |
| Package / Case             | 48-LQFP  | 49-UFBGA, WLCSP  | 48-UFQFN Exposed Pad   | 48-LQFP  |
| Base Product Number        | STM32F072  | STM32F072  | STM32F072  | STM32F072  |
| Connectivity               | CANbus, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB | CANbus, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB | CANbus, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB | CANbus, HDMI-CEC, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB |
| Program Memory Type        | FLASH  | FLASH  | FLASH  | FLASH  |
| EEPROM Size                | -  | -  | -  | -  |
| Core Size                  | 32-Bit Single-Core   | 32-Bit Single-Core   | 32-Bit Single-Core   | 32-Bit Single-Core   |
| Program Memory Size        | 128KB (128K x 8)   | 128KB (128K x 8)   | 128KB (128K x 8)   | 64KB (64K x 8)   |
| Supplier Device Package    | 48-LQFP (7x7)  | 49-WLCSP (3.28x3.11)   | 48-UFQFPN (7x7)  | 48-LQFP (7x7)  |
| Data Converters            | A/D 10x12b; D/A 2x12b  | A/D 10x12b; D/A 2x12b  | A/D 10x12b; D/A 2x12b  | A/D 10x12b; D/A 2x12b  |
| Oscillator Type            | Internal   | Internal   | Internal   | Internal   |
| Operating Temperature      | -40°C ~ 105°C (TA)   | -40°C ~ 105°C (TA)   | -40°C ~ 85°C (TA)  | -40°C ~ 85°C (TA)  |
| Series                     | STM32F0  | STM32F0  | STM32F0  | STM32F0  |
| Core Processor             | ARM® Cortex®-M0  | ARM® Cortex®-M0  | ARM® Cortex®-M0  | ARM® Cortex®-M0  |
| 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                                   |
| Voltage - Supply (Vcc/Vdd) | 1.65V ~ 3.6V   | 1.65V ~ 3.6V   | 1.65V ~ 3.6V   | 1.65V ~ 3.6V   |
| Speed                      | 48MHz  | 48MHz  | 48MHz  | 48MHz  |
| Package                    | Tray   | Tape & Reel (TR)   | Tape & Reel (TR)   | Tray   |
| Mounting Type              | Surface Mount  | Surface Mount  | Surface Mount  | Surface Mount  |

## STM32F072CBT7 Datasheet PDF

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### 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

STM32F0zzz Programming Manual.pdf

STM32F072x8, STM32F072xB.pdf

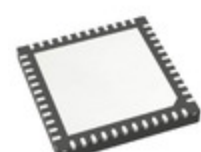
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### Recommended Products



#### STM32F072CBY7TR

STMicroelectronics  
IC MCU 32BIT 128KB FLASH  
49WLSCP



#### STM32F072CBU6TR

STMicroelectronics  
IC MCU 32BIT 128KB FL5H  
48UFQFPN



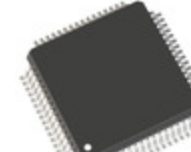
#### STM32F072C8T6

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



#### STM32F072C8T7

STMicroelectronics  
IC MCU 32BIT 64KB FLASH 48LQFP



#### STM32F072RBT7

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#### STM32F071VBT6TR

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100LQFP



#### STM32F072RBT6TR

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IC MCU 32BIT 128KB FLASH 64LQFP



#### STM32F071VGT6

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#### STM32F072CBU6

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48UFQFPN



#### STM32F072RBH6

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IC MCU 32BIT 128KB FLASH  
64UFBGA



#### STM32F072CBT6TR

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#### STM32F072R8T6

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IC MCU 32BIT 64KB FLASH 64LQFP



#### STM32F071VBT61

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#### STM32F072C8U6

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IC MCU 32BIT 64KB FLASH  
48UFQFPN



#### STM32F072RBT6

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#### STM32F072CBY6TR

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IC MCU 32BIT 128KB FLASH  
49WLSCP



#### STM32F071VBT6,32

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#### STM32F072CBT6

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## Shipment

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  - > 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.

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