# STM32F100RCT6

| | |
|---|---|
| Manufacturer Part Number | STM32F100RCT6 |
| Manufacturer | STMicroelectronics |
| Allelco Part Number | 32D-STM32F100RCT6 |
| ECAD Model | ▶ 3D  PCB Symbol, Footprint & 3D Mode |
| Parts Description | IC MCU 32BIT 256KB FLASH 64LQFP |
| Package | 64-LQFP |
| Data sheet | STM32F100xC,D,E Datasheet.pdf |
| RoHS Status | RoHS ROHS3 Compliant |

Image may be representation.
See specifications for product details.

**Get a Quote**

STM32F100RCT6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F100RCT6 datasheet/specifications on AllelcoElec.com.
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## Specifications

STM32F100RCT6 Tech Specifications
STM32F100RCT6 - 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 | 51 |
| Series | STM32F1 | Mounting Type | Surface Mount |
| RAM Size | 24K x 8 | EEPROM Size | - |
| Program Memory Type | FLASH | Data Converters | A/D 16x12b; D/A 2x12b |
| Program Memory Size | 256KB (256K x 8) | Core Size | 32-Bit Single-Core |
| Peripherals | DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT | Core Processor | ARM® Cortex®-M3 |
| Package / Case | 64-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 STM32F100RCT6

| Product Attribute | | | | |
|---|---|---|---|---|
| Part Number | STM32F100RCT6 | STM32F100R8T7B | STM32F100RBT6BTR | STM32F100V8T6B |
| Manufacturer | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics |
| EEPROM Size | - | - | - | - |
| 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 |
| Core Processor | ARM® Cortex®-M3 | ARM® Cortex®-M3 | ARM® Cortex®-M3 | ARM® Cortex®-M3 |
| Program Memory Size | 256KB (256K x 8) | 64KB (64K x 8) | 128KB (128K x 8) | 64KB (64K x 8) |
| 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 |
| Speed | 24MHz | 24MHz | 24MHz | 24MHz |
| Series | STM32F1 | STM32F1 | STM32F1 | STM32F1 |
| Package | Tray | Tray | Tape & Reel (TR) | Tray |
| Number of I/O | 51 | 51 | 51 | 80 |
| Oscillator Type | Internal | Internal | Internal | Internal |
| RAM Size | 24K x 8 | 8K x 8 | 8K x 8 | 8K x 8 |
| Base Product Number | STM32F100 | STM32F100 | STM32F100 | STM32F100 |
| Operating Temperature | -40°C ~ 85°C (TA) | -40°C ~ 105°C (TA) | -40°C ~ 85°C (TA) | -40°C ~ 85°C (TA) |
| Package / Case | 64-LQFP | 64-LQFP | 64-LQFP | 100-LQFP |
| Data Converters | A/D 16x12b; D/A 2x12b | A/D 16x12b; D/A 2x12b | A/D 16x12b; D/A 2x12b | A/D 16x12b; D/A 2x12b |
| 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 |
| Program Memory Type | FLASH | FLASH | FLASH | FLASH |
| Core Size | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit Single-Core |

## STM32F100RCT6 Datasheet PDF

Download STM32F100RCT6 pdf datasheets and STMicroelectronics documentation for STM32F100RCT6 - STMicroelectronics.
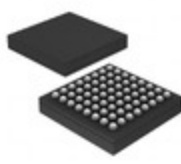
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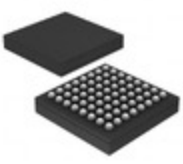
📄 STM32F100xC,D,E Datasheet.pdf

## PCN Design/Specification

📄 Cylindrical Battery Holders.pdf

## Customers Also Interested in

## Recommended Products

| | | | | | |
|---|---|---|---|---|---|
| **STM32F100R8T7B** | **STM32F100RBT6BTR** | **STM32F100V8T6B** | **STM32F100RBH6B** | **STM32F100RCT6TR** | **STM32F100RBH6BTR** |
| STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics |
| IC MCU 32BIT 64KB FLASH 64LQFP | IC MCU 32BIT 128KB FLASH 64LQFP | IC MCU 32BIT 64KB FLASH 100LQFP | IC MCU 32BIT 128KB FLASH 64TFBGA | IC MCU 32BIT 256KB FLASH 64LQFP | IC MCU 32BIT 128KB FLASH 64TFBGA |
| **STM32F100RBH6TR,32** | **STM32F100RBT6B** | **STM32F100RCT6BTR** | **STM32F100VBT6BTR** | **STM32F100RCT6B** | **STM32F100RBH6TR** |
| STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics |
| | IC MCU 32BIT 128KB FLASH 64LQFP | IC MCU 32BIT 256KB FLASH 64LQFP | IC MCU 32BIT 128KB FLASH 100LQFP | IC MCU 32BIT 256KB FLASH 64LQFP | |
| **STM32F100RDT6BTR** | **STM32F100VBT6B** | **STM32F100RBT6B,32** | **STM32F100RBT6** | **STM32F100RBH6** | **STM32F100RCT7B** |
| STMicroelectronics | STMicroelectronics | STMicroelectronics | QFP64 | STMicroelectronics | STMicroelectronics |
| IC MCU 32BIT 384KB FLASH 64LQFP | IC MCU 32BIT 128KB FLASH 100LQFP | | | | IC MCU 32BIT 256KB 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 |

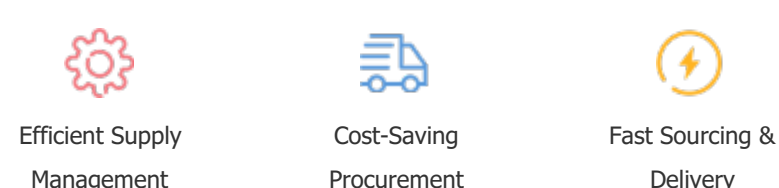| DHL & FedEx Shipment Charges Reference | |
|---|---|
| **Shipment charges(KG)** | **Reference DHL(USD$)** |
| 0.00kg-1.00kg | USD$60.00 |
| 1.00kg-2.00kg | USD$70.00 |
| 2.00kg-3.00kg | USD$80.00 |

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

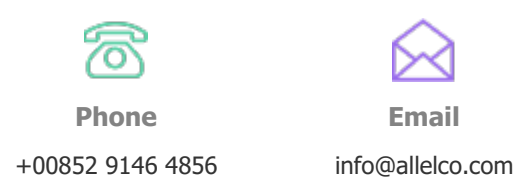Contact us if you have any questions.

### Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.

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

Phone
+00852 9146 4856

Email
info@allelco.com

### Certifications & Memberships

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### Contact us

**Address:** Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong

**Phone:** +00852 9146 4856

**Fax:** +00852 3010 8510

**Email:** info@Allelco.com