

Image may be representation.
See specifications for product details.



STM32G051K6T6

| | |
|--------------------------|-------------------------------------|
| Manufacturer Part Number | STM32G051K6T6 |
| Manufacturer | STMicroelectronics |
| Allelco Part Number | 32D-STM32G051K6T6 |
| ECAD Model | PCB Symbol, Footprint & 3D Mode |
| Parts Description | IC MCU 32BIT 32KB FLASH 32LQFP |
| Package | 32-LQFP |
| Data sheet | STM32G051x6, STM32G051x8.pdf |
| RoHs Status | ROHS3 Compliant |

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Specifications

STM32G051K6T6 Tech Specifications
STM32G051K6T6 - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute | Attribute Value | Product Attribute | Attribute Value |
|----------------------------|---|-----------------------|--|
| Manufacturer | STMicroelectronics | Package | Tray |
| Voltage - Supply (Vcc/Vdd) | 1.7V ~ 3.6V | Oscillator Type | External, Internal |
| Supplier Device Package | 32-LQFP (7x7) | Operating Temperature | -40°C ~ 85°C (TA) |
| Speed | 64MHz | Mounting Type | Surface Mount |
| Series | STM32G0 | EEPROM Size | - |
| RAM Size | 18K x 8 | Data Converters | A/D 12b SAR; D/A 2x12b |
| Program Memory Type | FLASH | Core Size | 32-Bit Single-Core |
| Program Memory Size | 32KB (32K x 8) | Core Processor | ARM® Cortex®-M0+ |
| Peripherals | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT | Connectivity | HDMI-CEC, I²C, IrDA, LINbus, SPI, UART/USART |
| Package / Case | 32-LQFP | Base Product Number | STM32G051 |

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32G051K6T6

| Product Attribute | | | | |
|----------------------------|---|------------------------------------|---|---|
| Part Number | STM32G051K6T6 | STM32G070KBT6 | STM32G051G6U6 | STM32G031K8T7 |
| Manufacturer | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics |
| Oscillator Type | External, Internal | Internal | External, Internal | Internal |
| Data Converters | A/D 12b SAR; D/A 2x12b | A/D 13x12b | A/D 17x12b SAR; D/A 2x12b | A/D 18x12b |
| Voltage - Supply (Vcc/Vdd) | 1.7V ~ 3.6V | 2V ~ 3.6V | 1.7V ~ 3.6V | 1.7V ~ 3.6V |
| Connectivity | HDMI-CEC, I²C, IrDA, LINbus, SPI, UART/USART | I²C, IrDA, LINbus, SPI, UART/USART | I²C, IrDA, LINbus, SPI, UART/USART | I²C, IrDA, LINbus, SPI, UART/USART |
| Package | Tray | Tray | Bulk | Tray |
| Core Processor | ARM® Cortex®-M0+ | ARM® Cortex®-M0+ | ARM® Cortex®-M0+ | ARM® Cortex®-M0+ |
| Core Size | 32-Bit Single-Core | 32-Bit Single-Core | 32-Bit | 32-Bit Single-Core |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Program Memory Type | FLASH | FLASH | FLASH | FLASH |
| Base Product Number | STM32G051 | STM32G070 | - | STM32G031 |
| Package / Case | 32-LQFP | 32-LQFP | 28-UFQFN | 32-LQFP |
| Speed | 64MHz | 64MHz | 64MHz | 64MHz |
| Series | STM32G0 | STM32G0 | STM32G0 | STM32G0 |
| Operating Temperature | -40°C ~ 85°C (TA) | -40°C ~ 85°C (TA) | -40°C ~ 85°C (TA) | -40°C ~ 105°C (TA) |
| Program Memory Size | 32KB (32K x 8) | 128KB (128K x 8) | 32KB (32K x 8) | 64KB (64K x 8) |
| EEPROM Size | - | - | - | - |
| Supplier Device Package | 32-LQFP (7x7) | 32-LQFP (7x7) | 28-UFQFPN (4x4) | 32-LQFP (7x7) |
| RAM Size | 18K x 8 | 36K x 8 | 18K x 8 | 8K x 8 |
| Peripherals | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT | DMA, I²S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT |

STM32G051K6T6 Datasheet PDF

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Datasheets

[STM32G051x6, STM32G051x8.pdf](#)




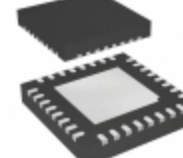







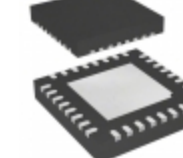






PCN Design/Specification

[Datasheets enhancement 01/Sep/2021.pdf](#)

[STM32G05/6x 28/Jun/2022.pdf](#)

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Recommended Products

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|---|---|---|--|---|---|
|  |  |  |  |  |  |
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|  |  |  |  |  |  |
| STM32G050K8T6 STMicroelectronics IC MCU 32BIT 64KB FLASH 32LQFP | STM32G061C6T6 STMicroelectronics CONTROLLER / PROCESSOR | STM32G061C8T6 STMicroelectronics IC MCU 32BIT 64KB FLASH 48LQFP | STM32G051K8T6 STMicroelectronics IC MCU 32BIT 64KB FLASH 32LQFP | STM32G070CBT6 STMicroelectronics IC MCU 32BIT 128KB FLASH 48LQFP | STM32G031K6U6 STMicroelectronics IC MCU 32BIT 32KB FLASH 32UFQFPN |
|  |  |  |  |  |  |
| STM32G070KBT6TR STMicroelectronics CONTROLLER / PROCESSOR | STM32G070CBT6TR STMicroelectronics IC MCU 32BIT 128KB FLASH 48LQFP | STM32G031Y8Y6TR STMicroelectronics IC MCU 32BIT 64KB FLASH 18WLCSP | STM32G031K8T6 STMicroelectronics IC MCU 32BIT 64KB FLASH 32LQFP | STM32G070RBT STMicroelectronics | STM32G051G8U6 STMicroelectronics CONTROLLER / PROCESSOR |

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- (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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