



Image may be representation.  
See specifications for product details.



## STM8S105K4T6C

|                          |                                  |
|--------------------------|----------------------------------|
| Manufacturer Part Number | <b>STM8S105K4T6C</b>             |
| Manufacturer             | <b>STMicroelectronics</b>        |
| Allelco Part Number      | 32D-STM8S105K4T6C                |
| ECAD Model               | PCB Symbol, Footprint & 3D Model |
| Parts Description        | IC MCU 8BIT 16KB FLASH 32LQFP    |
| Package                  | 32-LQFP                          |
| Data sheet               | <b>STM8S105x(4, 6).pdf</b>       |
| RoHs Status              | <b>ROHS3 Compliant</b>           |

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### Specifications

STM8S105K4T6C Tech Specifications  
STM8S105K4T6C - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute          | Attribute Value                       | Product Attribute     | Attribute Value                                 |
|----------------------------|---------------------------------------|-----------------------|---|
| Manufacturer               | STMicroelectronics                    | Oscillator Type       | Internal  |
| Voltage - Supply (Vcc/Vdd) | 2.95V ~ 5.5V                          | Operating Temperature | -40°C ~ 85°C (TA)                               |
| Speed                      | 16MHz                                 | Number of I/O         | 25  |
| Series                     | STM8S                                 | Mounting Type         | Surface Mount                                   |
| RAM Size                   | 2K x 8                                | EEPROM Size           | 1K x 8  |
| Program Memory Type        | FLASH                                 | Data Converters       | A/D 7x10b                                       |
| Program Memory Size        | 16KB (16K x 8)                        | Core Size             | 8-Bit   |
| Peripherals                | Brown-out Detect/Reset, POR, PWM, WDT | Core Processor        | STM8  |
| Package / Case             | 32-LQFP                               | Connectivity          | I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART |
| Package                    | Tray                                  | Base Product Number   | STM8  |

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM8S105K4T6C

| Product Attribute          |   |   |   |   |
|----------------------------|---|---|---|---|
| Part Number                | STM8S105K4T6C                                   | STM8S105C6T3                                    | STM8S105C6T6                                    | STM8S105K4T6CTR                                 |
| Manufacturer               | STMicroelectronics                              | STMicroelectronics                              | STMicroelectronics                              | STMicroelectronics                              |
| Speed                      | 16MHz   | 16MHz   | 16MHz   | 16MHz   |
| Series                     | STM8S   | STM8S   | STM8S   | STM8S   |
| Program Memory Type        | FLASH   | FLASH   | FLASH   | FLASH   |
| Connectivity               | I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART | I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART | I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART | I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART |
| Data Converters            | A/D 7x10b                                       | A/D 10x10b                                      | A/D 10x10b                                      | A/D 7x10b                                       |
| Mounting Type              | Surface Mount                                   | Surface Mount                                   | Surface Mount                                   | Surface Mount                                   |
| Package / Case             | 32-LQFP   | 48-LQFP   | 48-LQFP   | 32-LQFP   |
| Program Memory Size        | 16KB (16K x 8)                                  | 32KB (32K x 8)                                  | 32KB (32K x 8)                                  | 16KB (16K x 8)                                  |
| Number of I/O              | 25  | 38  | 38  | 25  |
| Base Product Number        | STM8  | STM8  | STM8  | STM8  |
| Package                    | Tray  | Tray  | Tray  | Tape & Reel (TR)                                |
| Voltage - Supply (Vcc/Vdd) | 2.95V ~ 5.5V                                    | 2.95V ~ 5.5V                                    | 2.95V ~ 5.5V                                    | 2.95V ~ 5.5V                                    |
| Core Processor             | STM8  | STM8  | STM8  | STM8  |
| RAM Size                   | 2K x 8  | 2K x 8  | 2K x 8  | 2K x 8  |
| Peripherals                | Brown-out Detect/Reset, POR, PWM, WDT           | Brown-out Detect/Reset, POR, PWM, WDT           | Brown-out Detect/Reset, POR, PWM, WDT           | Brown-out Detect/Reset, POR, PWM, WDT           |
| Core Size                  | 8-Bit   | 8-Bit   | 8-Bit   | 8-Bit   |
| Oscillator Type            | Internal  | Internal  | Internal  | Internal  |
| EEPROM Size                | 1K x 8  | 1K x 8  | 1K x 8  | 1K x 8  |
| Operating Temperature      | -40°C ~ 85°C (TA)                               | -40°C ~ 125°C (TA)                              | -40°C ~ 85°C (TA)                               | -40°C ~ 85°C (TA)                               |

### STM8S105K4T6C Datasheet PDF

Download STM8S105K4T6C pdf datasheets and STMicroelectronics documentation for STM8S105K4T6C - STMicroelectronics.

#### PCN Packaging

- Material Barrier Bag 17/Dec/2020.pdf
- Box Label Chg 28/Jul/2016.pdf

#### PCN Design/Specification















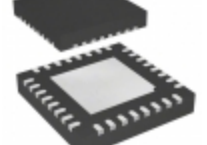



- Mult Dev 03/Nov/2022.pdf

#### PCN Assembly/Origin

## HTML Datasheet

## Customers Also Interested in

### Recommended Products

|  |   |  |   |  |   |
|--|---|--|---|--|---|
| <br><b>STM8S105K4T6C,8</b><br>STMicroelectronics                                  | <br><b>STM8S105C6T3</b><br>STMicroelectronics<br>IC MCU 8BIT 32KB FLASH 48LQFP   | <br><b>STM8S105C6T6</b><br>STMicroelectronics<br>IC MCU 8BIT 32KB FLASH 48LQFP      | <br><b>STM8S105K4T6CTR</b><br>STMicroelectronics<br>IC MCU 8BIT 16KB FLASH 32LQFP | <br><b>STM8S105K6T3C</b><br>STMicroelectronics<br>IC MCU 8BIT 32KB FLASH 32LQFP | <br><b>STM8S105K6T3C,8</b><br>STMicroelectronics                                 |
| <br><b>STM8S105K4T3CTR</b><br>STMicroelectronics<br>IC MCU 8BIT 16KB FLASH 32LQFP | <br><b>STM8S105C6T6TR</b><br>STMicroelectronics<br>IC MCU 8BIT 32KB FLASH 48LQFP | <br><b>STM8S105K4T3C</b><br>STMicroelectronics<br>IC MCU 8BIT 16KB FLASH 32LQFP     | <br><b>STM8S105K4T6</b><br>STMicroelectronics                                     | <br><b>STM8S105K6T6C</b><br>STMicroelectronics<br>IC MCU 8BIT 32KB FLASH 32LQFP | <br><b>STM8S105K4B6</b><br>STMicroelectronics<br>IC MCU 8BIT 16KB FLASH 32SDIP   |
| <br><b>STM8S105K4T6CTR,8</b><br>STMicroelectronics                              | <br><b>STM8S105K4U6</b><br>STMicroelectronics                                  | <br><b>STM8S105K4U6A</b><br>STMicroelectronics<br>IC MCU 8BIT 16KB FLASH 32UFQFPN | <br><b>STM8S105C6T6,8</b><br>STMicroelectronics                                 | <br><b>STM8S105C6T6/TR</b><br>STMicroelectronics                              | <br><b>STM8S105K6B6</b><br>STMicroelectronics<br>IC MCU 8BIT 32KB FLASH 32SDIP |

## 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           |

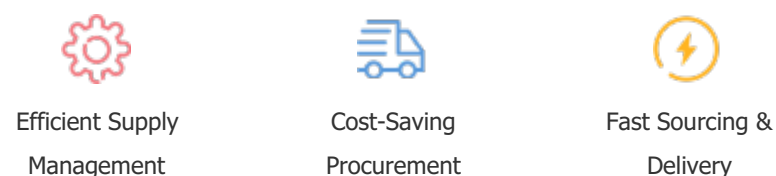
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### Payment Support

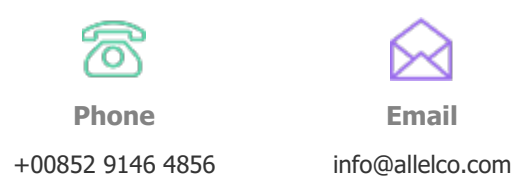
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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