



STMicroelectronics



STM32F051R8T7TR

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | STM32F051R8T7TR                                                                                              |
| Manufacturer/Brand: | STMicroelectronics                                                                                           |
| Product description | IC MCU 32BIT 64KB FLASH 64LQFP                                                                               |
|                     |  1.STM32F051R8T7TR.pdf      |
|                     |  2.STM32F051R8T7TR.pdf      |
|                     |  3.STM32F051R8T7TR.pdf      |
|                     |  4.STM32F051R8T7TR.pdf      |
|                     |  5.STM32F051R8T7TR.pdf      |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 60949 pcs stock                                                                                              |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

Image may be representation. See specifications for product details.

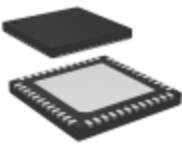
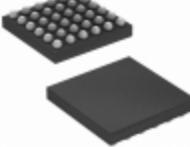
Specifications of STM32F051R8T7TR

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | STM32F051R8T7TR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MANUFACTURER                     | STMicroelectronics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DESCRIPTION                      | IC MCU 32BIT 64KB FLASH 64LQFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| QUANTITY AVAILABLE               | 60949 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| DATA SHEET                       |  1.STM32F051R8T7TR.pdf<br> 2.STM32F051R8T7TR.pdf<br> 3.STM32F051R8T7TR.pdf<br> 4.STM32F051R8T7TR.pdf<br> 5.STM32F051R8T7TR.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2 V ~ 3.6 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SUPPLIER DEVICE PACKAGE          | 64-LQFP (10x10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SPEED                            | 48MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SERIES                           | STM32F0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| RAM SIZE                         | 8K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PROGRAM MEMORY SIZE              | 64KB (64K x 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PERIPHERALS                      | DMA, PDR, POR, PVD, PWM, Temp Sensor, WDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PACKAGING                        | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PACKAGE / CASE                   | 64-LQFP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| OPERATING TEMPERATURE            | -40°C ~ 105°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| NUMBER OF I/O                    | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EEPROM SIZE                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DETAILED DESCRIPTION             | ARM® Cortex®-M0 STM32F0 Microcontroller IC 32-Bit 48MHz 64KB (64K x 8) FLASH 64-LQFP (10x10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DATA CONVERTERS                  | A/D 19x12b, D/A 1x12b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CORE SIZE                        | 32-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CORE PROCESSOR                   | ARM® Cortex®-M0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CONNECTIVITY                     | I²C, IrDA, LINbus, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Related Tags

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Related Products

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>STM32F058R8H6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 64BGA<br/>In stock: 77209 pcs</div> <div>RFQ</div>    |  <div><b>STM32F058C8U6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 48QFPN<br/>In stock: 76849 pcs</div> <div>RFQ</div>    |
|  <div><b>STM32F052B-DISCO</b><br/>Manufacturers: STMicroelectronics<br/>Description: BOARD DISCO STM32F052B<br/>In stock: 5017 pcs</div> <div>RFQ</div>         |  <div><b>STM32F058R8H6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFBGA 5X5X0.6 64L P<br/>In stock: 72294 pcs</div> <div>RFQ</div>             |
|  <div><b>STM32F058R8H7</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 64UFBGA<br/>In stock: 79765 pcs</div> <div>RFQ</div>  |  <div><b>STM32F051T8Y6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 36WLCSP<br/>In stock: 73482 pcs</div> <div>RFQ</div> |
|  <div><b>STM32F051R8T7</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 64LQFP<br/>In stock: 44395 pcs</div> <div>RFQ</div>   |  <div><b>STM32F051R8H7</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 64UFBGA<br/>In stock: 64794 pcs</div> <div>RFQ</div>   |
|  <div><b>STM32F051R8T6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 64LQFP<br/>In stock: 57019 pcs</div> <div>RFQ</div> |  <div><b>STM32F051R8H7TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFBGA 5X5X0.6 64L P<br/>In stock: 56579 pcs</div> <div>RFQ</div>             |
|  <div><b>STM32F051R8H6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFBGA 5X5X0.6 64L P<br/>In stock: 61582 pcs</div> <div>RFQ</div>            |  <div><b>STM32F051R8T6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 64KB FLASH 64LQFP<br/>In stock: 33447 pcs</div> <div>RFQ</div>    |