



STMicroelectronics



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STM32F412RGT6TR

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | STM32F412RGT6TR                                                                                              |
| Manufacturer/Brand: | STMicroelectronics                                                                                           |
| Product description | IC MCU 32BIT 1MB FLASH 64LQFP                                                                                |
|                     |  1.STM32F412RGT6TR.pdf      |
|                     |  2.STM32F412RGT6TR.pdf      |
|                     |  3.STM32F412RGT6TR.pdf      |
|                     |  4.STM32F412RGT6TR.pdf      |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

Image may be representation. See specifications for product details.

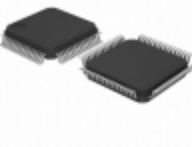
Specifications of STM32F412RGT6TR

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | STM32F412RGT6TR                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| MANUFACTURER                     | STMicroelectronics                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DESCRIPTION                      | IC MCU 32BIT 1MB FLASH 64LQFP                                                                                                                                                                                                                                                                                                                                                                                                                    |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                       |
| DATA SHEET                       |  1.STM32F412RGT6TR.pdf<br> 2.STM32F412RGT6TR.pdf<br> 3.STM32F412RGT6TR.pdf<br> 4.STM32F412RGT6TR.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 1.7 V ~ 3.6 V                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SPEED                            | 100MHz                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SERIES                           | STM32F4                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RAM SIZE                         | 256K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PROGRAM MEMORY SIZE              | 1MB (1M x 8)                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PERIPHERALS                      | Brown-out Detect/Reset, DMA, I²S, LCD, POR, PWM, WDT                                                                                                                                                                                                                                                                                                                                                                                             |
| PACKAGING                        | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NUMBER OF I/O                    | 50                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MANUFACTURER STANDARD LEAD TIME  | 14 Weeks                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EEPROM SIZE                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DETAILED DESCRIPTION             | ARM® Cortex®-M4 STM32F4 Microcontroller IC 32-Bit 100MHz 1MB (1M x 8) FLASH                                                                                                                                                                                                                                                                                                                                                                      |
| DATA CONVERTERS                  | A/D 16x12b                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CORE SIZE                        | 32-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CORE PROCESSOR                   | ARM® Cortex®-M4                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CONNECTIVITY                     | CANbus, I²C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB, USB OTG                                                                                                                                                                                                                                                                                                                                                                      |

Related Tags

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Related Products

|                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div>STM32F412RGY6PTR</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 64WLCSP<br/>In stock: Out stock</div> <div>RFQ</div>  |  <div>STM32F412VEH3TR</div> <div>Manufacturers: STMicroelectronics<br/>Description: UFBGA 7X7X0.60 100L<br/>In stock: Out stock</div> <div>RFQ</div>             |
|  <div>STM32F412VET3TR</div> <div>Manufacturers: STMicroelectronics<br/>Description: LQFP 100 14X14X1.4<br/>In stock: Out stock</div> <div>RFQ</div>               |  <div>STM32F412G-DISCO</div> <div>Manufacturers: STMicroelectronics<br/>Description: DISCOVERY KIT WITH STM32F412ZG M<br/>In stock: 116 pcs</div> <div>RFQ</div> |
|  <div>STM32F412REY6TR</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 64WLCSP<br/>In stock: Out stock</div> <div>RFQ</div> |  <div>STM32F412VET3</div> <div>Manufacturers: STMicroelectronics<br/>Description: LQFP 100 14X14X1.4<br/>In stock: Out stock</div> <div>RFQ</div>                |
|  <div>STM32F412CGU6TR</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 48UFQFPN<br/>In stock: Out stock</div> <div>RFQ</div>  |  <div>STM32F412RET6</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 64LQFP<br/>In stock: Out stock</div> <div>RFQ</div>   |
|  <div>STM32F412VEH6</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 100BGA<br/>In stock: Out stock</div> <div>RFQ</div>    |  <div>STM32F412RGT6</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 64LQFP<br/>In stock: 776 pcs</div> <div>RFQ</div>       |
|  <div>STM32F412RET6TR</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 64LQFP<br/>In stock: Out stock</div> <div>RFQ</div>  |  <div>STM32F412RGY6TR</div> <div>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 64WLCSP<br/>In stock: Out stock</div> <div>RFQ</div>  |