



STMicroelectronics



STM32F412VET6TR

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | STM32F412VET6TR                                                                                              |
| Manufacturer/Brand: | STMicroelectronics                                                                                           |
| Product description | IC MCU 32BIT 512KB FLASH 100LQFP                                                                             |
|                     |  1.STM32F412VET6TR.pdf      |
|                     |  2.STM32F412VET6TR.pdf      |
|                     |  3.STM32F412VET6TR.pdf      |
|                     |  4.STM32F412VET6TR.pdf      |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 22404 pcs stock                                                                                              |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

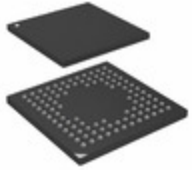
Specifications of STM32F412VET6TR

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | STM32F412VET6TR                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| MANUFACTURER                     | STMicroelectronics                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DESCRIPTION                      | IC MCU 32BIT 512KB FLASH 100LQFP                                                                                                                                                                                                                                                                                                                                                                                                                 |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                       |
| QUANTITY AVAILABLE               | 22404 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DATA SHEET                       |  1.STM32F412VET6TR.pdf<br> 2.STM32F412VET6TR.pdf<br> 3.STM32F412VET6TR.pdf<br> 4.STM32F412VET6TR.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 1.7 V ~ 3.6 V                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SUPPLIER DEVICE PACKAGE          | 100-LQFP (14x14)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SPEED                            | 100MHz                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SERIES                           | STM32F4                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RAM SIZE                         | 256K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PROGRAM MEMORY SIZE              | 512KB (512K x 8)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PERIPHERALS                      | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT                                                                                                                                                                                                                                                                                                                                                                                |
| PACKAGING                        | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PACKAGE / CASE                   | 100-LQFP                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NUMBER OF I/O                    | 81                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EEPROM SIZE                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| DETAILED DESCRIPTION             | ARM® Cortex®-M4 STM32F4 Microcontroller IC 32-Bit 100MHz 512KB (512K x 8) FLASH 100-LQFP (14x14)                                                                                                                                                                                                                                                                                                                                                 |
| DATA CONVERTERS                  | A/D 16x12b                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CORE SIZE                        | 32-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CORE PROCESSOR                   | ARM® Cortex®-M4                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CONNECTIVITY                     | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, QSPI, SPI, UART/USART, USB, USB OTG                                                                                                                                                                                                                                                                                                                                                |

Related Tags

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Related Products

|                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>STM32F412ZEJ3</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFBGA 10X10 144L P 0<br/>In stock: 16910 pcs</div> <div>RFQ</div>             |  <div><b>STM32F412VET6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 100LQFP<br/>In stock: 10591 pcs</div> <div>RFQ</div> |
|  <div><b>STM32F412RGY6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 64WLCSP<br/>In stock: 16809 pcs</div> <div>RFQ</div> |  <div><b>STM32F412VGH6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 100UFBGA<br/>In stock: 16999 pcs</div> <div>RFQ</div>  |
|  <div><b>STM32F412VEH6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 100BGA<br/>In stock: 22505 pcs</div> <div>RFQ</div>  |  <div><b>STM32F412VET3TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: LQFP 100 14X14X1.4<br/>In stock: 18281 pcs</div> <div>RFQ</div>             |
|  <div><b>STM32F412VGT6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 100LQFP<br/>In stock: 15328 pcs</div> <div>RFQ</div>   |  <div><b>STM32F412VEH3TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFBGA 7X7X0.60 100L<br/>In stock: 14835 pcs</div> <div>RFQ</div>            |
|  <div><b>STM32F412ZEJ6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 144BGA<br/>In stock: 18512 pcs</div> <div>RFQ</div>  |  <div><b>STM32F412VET3</b><br/>Manufacturers: STMicroelectronics<br/>Description: LQFP 100 14X14X1.4<br/>In stock: 15326 pcs</div> <div>RFQ</div>               |
|  <div><b>STM32F412VGT6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 1MB FLASH 100LQFP<br/>In stock: 14573 pcs</div> <div>RFQ</div> |  <div><b>STM32F412ZET6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 144LQFP<br/>In stock: 15748 pcs</div> <div>RFQ</div> |