



STMicroelectronics



STM32L451CEU6

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | STM32L451CEU6                                                                                                |
| Manufacturer/Brand: | STMicroelectronics                                                                                           |
| Product description | IC MCU 32BIT 512KB FLASH 48UFQFP                                                                             |
|                     |  1.STM32L451CEU6.pdf        |
|                     |  2.STM32L451CEU6.pdf        |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 28357 pcs stock                                                                                              |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

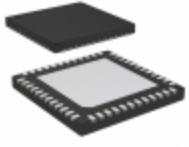
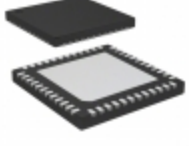
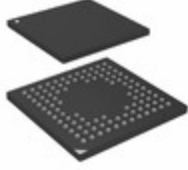
Specifications of STM32L451CEU6

|                                  |                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | STM32L451CEU6                                                                                                                                                                                                      |
| MANUFACTURER                     | STMicroelectronics                                                                                                                                                                                                 |
| DESCRIPTION                      | IC MCU 32BIT 512KB FLASH 48UFQFP                                                                                                                                                                                   |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                         |
| QUANTITY AVAILABLE               | 28357 pcs                                                                                                                                                                                                          |
| DATA SHEET                       |  1.STM32L451CEU6.pdf<br> 2.STM32L451CEU6.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 1.71 V ~ 3.6 V                                                                                                                                                                                                     |
| SPEED                            | 80MHz                                                                                                                                                                                                              |
| SERIES                           | STM32L4                                                                                                                                                                                                            |
| RAM SIZE                         | 160K x 8                                                                                                                                                                                                           |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                              |
| PROGRAM MEMORY SIZE              | 512KB (512K x 8)                                                                                                                                                                                                   |
| PERIPHERALS                      | Brown-out Detect/Reset, DMA, PWM, WDT                                                                                                                                                                              |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                           |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                  |
| NUMBER OF I/O                    | 38                                                                                                                                                                                                                 |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                      |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                         |
| EEPROM SIZE                      | -                                                                                                                                                                                                                  |
| DETAILED DESCRIPTION             | ARM® Cortex®-M4 STM32L4 Microcontroller IC 32-Bit 80MHz 512KB (512K x 8) FLASH                                                                                                                                     |
| DATA CONVERTERS                  | A/D 10x12b, D/A 1x12b                                                                                                                                                                                              |
| CORE SIZE                        | 32-Bit                                                                                                                                                                                                             |
| CORE PROCESSOR                   | ARM® Cortex®-M4                                                                                                                                                                                                    |
| CONNECTIVITY                     | CANbus, I²C, IrDA, LINbus, QSPI, SAI, SPI, UART/USART                                                                                                                                                              |

Related Tags

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Related Products

|                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>STM32L451RET6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 64LQFP<br/>In stock: 14404 pcs<br/><div>RFQ</div></div>   |  <div><b>STM32L451CCU3</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFQFPN 7X7X0.55 48L<br/>In stock: 14021 pcs<br/><div>RFQ</div></div>              |
|  <div><b>STM32L451RCY6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 256KB FLASH 64LQFP<br/>In stock: 29766 pcs<br/><div>RFQ</div></div> |  <div><b>STM32L451RET6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: LQFP 64 10X10X1.4 1<br/>In stock: 21741 pcs<br/><div>RFQ</div></div>            |
|  <div><b>STM32L451CCU6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 256KB FLASH 48UFQFP<br/>In stock: 14824 pcs<br/><div>RFQ</div></div>  |  <div><b>STM32L451CCU3TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFQFPN 7X7X0.55 48L<br/>In stock: 22534 pcs<br/><div>RFQ</div></div>            |
|  <div><b>STM32L451RCI6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 256KB FLASH 64UFBGA<br/>In stock: 16082 pcs<br/><div>RFQ</div></div>  |  <div><b>STM32L451RCT6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 256KB FLASH 64LQFP<br/>In stock: 14590 pcs<br/><div>RFQ</div></div>  |
|  <div><b>STM32L451CCU6TR</b><br/>Manufacturers: STMicroelectronics<br/>Description: UFQFPN 7X7X0.55 48L<br/>In stock: 31902 pcs<br/><div>RFQ</div></div>             |  <div><b>STM32L451REI6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 512KB FLASH 64UFBGA<br/>In stock: 14399 pcs<br/><div>RFQ</div></div> |
|  <div><b>STM32L443VCT6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 256KB FLASH 100LQFP<br/>In stock: 14204 pcs<br/><div>RFQ</div></div>  |  <div><b>STM32L443VCI6</b><br/>Manufacturers: STMicroelectronics<br/>Description: IC MCU 32BIT 256KB FLASH 100BGA<br/>In stock: 16270 pcs<br/><div>RFQ</div></div>  |