



C8051F591-IM

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | C8051F591-IM                                                                                                 |
| Manufacturer/Brand: | Energy Micro (Silicon Labs)                                                                                  |
| Product description | IC MCU 8BIT 96KB FLASH 40QFN                                                                                 |
|                     | <a href="#">PDF</a> 1.C8051F591-IM.pdf                                                                       |
|                     | <a href="#">PDF</a> 2.C8051F591-IM.pdf                                                                       |
| Datasheets:         |  Lead free / RoHS Compliant |
| RoHs Status         |                                                                                                              |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

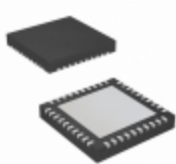
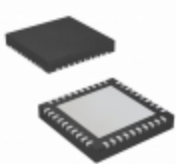
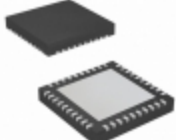
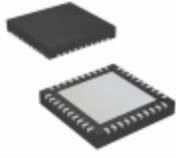
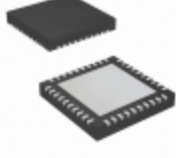
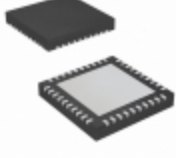
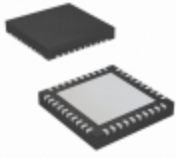
Specifications of C8051F591-IM

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| PART NUMBER                      | C8051F591-IM                                                                     |
| MANUFACTURER                     | Energy Micro (Silicon Labs)                                                      |
| DESCRIPTION                      | IC MCU 8BIT 96KB FLASH 40QFN                                                     |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                       |
| DATA SHEET                       | <a href="#">PDF</a> 1.C8051F591-IM.pdf<br><a href="#">PDF</a> 2.C8051F591-IM.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 1.8 V ~ 5.25 V                                                                   |
| SUPPLIER DEVICE PACKAGE          | 40-QFN (6x6)                                                                     |
| SPEED                            | 50MHz                                                                            |
| SERIES                           | C8051F59x                                                                        |
| RAM SIZE                         | 8.25K x 8                                                                        |
| PROGRAM MEMORY TYPE              | FLASH                                                                            |
| PROGRAM MEMORY SIZE              | 96KB (96K x 8)                                                                   |
| PERIPHERALS                      | POR, PWM, Temp Sensor, WDT                                                       |
| PACKAGING                        | Tube                                                                             |
| PACKAGE / CASE                   | 40-VFQFN Exposed Pad                                                             |
| OTHER NAMES                      | 336-1583-5<br>C8051F591IM                                                        |
| OSCILLATOR TYPE                  | Internal                                                                         |
| OPERATING TEMPERATURE            | -40°C ~ 125°C (TA)                                                               |
| NUMBER OF I/O                    | 33                                                                               |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                    |
| MANUFACTURER STANDARD LEAD TIME  | 6 Weeks                                                                          |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                       |
| EEPROM SIZE                      | -                                                                                |
| DETAILED DESCRIPTION             | 8051 C8051F59x Microcontroller IC 8-Bit 50MHz 96KB (96K x 8) FLASH 40-QFN (6x6)  |
| DATA CONVERTERS                  | A/D 32x12b                                                                       |
| CORE SIZE                        | 8-Bit                                                                            |
| CORE PROCESSOR                   | 8051                                                                             |
| CONNECTIVITY                     | EBI/EMI, SMBus (2-Wire/I <sup>2</sup> C), SPI, UART/USART                        |
| BASE PART NUMBER                 | C8051F59                                                                         |

Related Tags

|                                          |                                      |                                              |
|------------------------------------------|--------------------------------------|----------------------------------------------|
| Energy Micro (Silicon Labs) C8051F591-IM | C8051F591-IM Distributor             | C8051F591-IM Supplier                        |
| C8051F591-IM Price                       | C8051F591-IM Pictures                | C8051F591-IM Image                           |
| C8051F591-IM PDF Datasheet               | C8051F591-IM Download Datasheet      | C8051F591-IM Datasheet                       |
| C8051F591-IM Stock                       | Buy C8051F591-IM                     | Buy Energy Micro (Silicon Labs) C8051F591-IM |
| Energy Micro (Silicon Labs) C8051F591-IM | Energy Micro (Silicon Labs) Supplier | Energy Micro (Silicon Labs) Distributor      |
| Energy Micro (Silicon Labs) C8051F591-IM | Energy Micro C8051F591-IM            | Energy Micro (Silicon Labs) C8051F591-IM     |
| Silicon Laboratories C8051F591-IM        | Silicon Labs C8051F591-IM            |                                              |

Related Products

|                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                   |
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|  <div><b>C8051F589-IMR</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 128KB FLASH 40QFN<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |  <div><b>C8051F590-IM</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 96KB FLASH 40QFN<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>   |
|  <div><b>C8051F700-TB</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: BOARD PROTOTYPE WITH C8051F700<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |  <div><b>C8051F701-GQ</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 15KB FLASH 64TQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>  |
|  <div><b>C8051F700-GQ</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 15KB FLASH 64TQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>  |  <div><b>C8051F589-IM</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 128KB FLASH 40QFN<br/>In stock: 309 pcs<br/><a href="#">RFQ</a></div>    |
|  <div><b>C8051F590-IMR</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 96KB FLASH 40QFN<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>  |  <div><b>C8051F700DK</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: DEV KIT FOR C8051F700<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>           |
|  <div><b>C8051F591-IMR</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 96KB FLASH 40QFN<br/>In stock: Out stock<br/><a href="#">RFQ</a></div>  |  <div><b>C8051F588-IMR</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 128KB FLASH 40QFN<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |
|  <div><b>C8051F700-GQR</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 15KB FLASH 64TQFP<br/>In stock: Out stock<br/><a href="#">RFQ</a></div> |  <div><b>C8051F588-IM</b><br/>Manufacturers: Energy Micro (Silicon Labs)<br/>Description: IC MCU 8BIT 128KB FLASH 40QFN<br/>In stock: 98 pcs<br/><a href="#">RFQ</a></div>     |