

C8051F011



**SILICON LABS**

**Part Number:** [C8051F011](#)

**Manufacturer** [Energy Micro \(Silicon Labs\)](#)

**Description** IC MCU 8BIT 32KB FLASH 48QFP

**Data sheet:**  [C8051F0xx](#)

**RoHs Status:** Contains lead / RoHS non-compliant

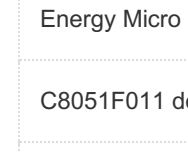
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |                                |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                   | C8051F011                                          | Manufacturer                   | <a href="#">Energy Micro (Silicon Labs)</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 8BIT 32KB FLASH 48QFP                       | Lead Free Status / RoHS Status | Contains lead / RoHS non-compliant                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                            | 4332 pcs                                           | Data sheet                     | <a href="#">C8051F0xx</a>                                                       |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a>          | Voltage - Supply (Vcc/Vdd)     | 2.7 V ~ 3.6 V                                                                   |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                       | 48-QFP (7x7)                                       | Speed                          | 20MHz                                                                           |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                        | C8051F01x                                          | RAM Size                       | 256 x 8                                                                         |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                              | Program Memory Size            | 32KB (32K x 8)                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                   | Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT | Packaging                      | Tray                                                                            |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                | 48-TQFP                                            | Oscillator Type                | Internal                                                                        |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 85°C (TA)                                  | Number of I/O                  | 16                                                                              |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                              | 3 (168 Hours)                                      | Lead Free Status / RoHS Status | Contains lead / RoHS non-compliant                                              |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                  | Detailed Description           | 8051 C8051F01x Microcontroller IC 8-Bit 20MHz 32KB (32K x 8) FLASH 48-QFP (7x7) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 8x10b; D/A 2x12b                               | Core Size                      | 8-Bit                                                                           |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                | 8051                                               | Connectivity                   | SMBus (2-Wire/I <sup>2</sup> C), SPI, UART/USART                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                              | C8051F01                                           |                                |                                                                                 |
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|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">C8051F010-GQR</a><br>Description: IC MCU 8BIT 32KB FLASH 64TQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F010R</a><br>Description: IC MCU 8BIT 32KB FLASH 64TQFP    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F012R</a><br>Description: IC MCU 8BIT 32KB FLASH 32LQFP    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F015-GQ</a><br>Description: IC MCU 8BIT 32KB FLASH 64TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F011-GQR</a><br>Description: IC MCU 8BIT 32KB FLASH 48QFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F011-GQ</a><br>Description: IC MCU 8BIT 32KB FLASH 48QFP   | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F015-GQR</a><br>Description: IC MCU 8BIT 32KB FLASH 64TQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F007R</a><br>Description: IC MCU 8BIT 32KB FLASH 32LQFP    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F007-GQR</a><br>Description: IC MCU 8BIT 32KB FLASH 32LQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">C8051F010-GQ</a><br>Description: IC MCU 8BIT 32KB FLASH 64TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F012-GQR</a><br>Description: IC MCU 8BIT 32KB FLASH 32LQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F012</a><br>Description: IC MCU 8BIT 32KB FLASH 32LQFP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">C8051F010</a><br>Description: IC MCU 8BIT 32KB FLASH 64TQFP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F011R</a><br>Description: IC MCU 8BIT 32KB FLASH 48QFP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F007-GQ</a><br>Description: IC MCU 8BIT 32KB FLASH 32LQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F006R</a><br>Description: IC MCU 8BIT 32KB FLASH 48QFP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |

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