

EFM8BB10F8I-A-SOIC16R



**SILICON LABS**

**Part Number:** [EFM8BB10F8I-A-SOIC16R](#)

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

**Description:** IC MCU 8BIT 8KB FLASH 16SOIC

**Data sheet:**  [EFM8BB1 Reference Manual](#)  
 [EFM8BB1 Datasheet](#)

**RoHs Status:** Lead free / RoHS Compliant

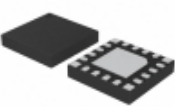
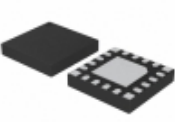
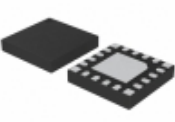
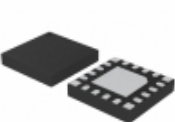
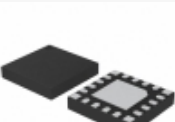
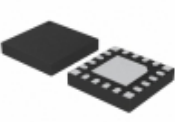
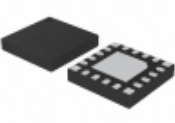
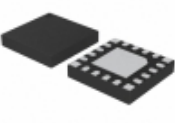
**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                |                                 |                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EFM8BB10F8I-A-SOIC16R                                                          | Manufacturer                    | <a href="#">Energy Micro (Silicon Labs)</a>                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IC MCU 8BIT 8KB FLASH 16SOIC                                                   | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 102739 pcs                                                                     | Data sheet                      | <a href="#">EFM8BB1 Reference Manual</a><br><a href="#">EFM8BB1 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <a href="#">Integrated Circuits (ICs)</a>                                      | Voltage - Supply (Vcc/Vdd)      | 2.2 V ~ 3.6 V                                                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16-SOIC                                                                        | Speed                           | 25MHz                                                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Busy Bee                                                                       | RAM Size                        | 512 x 8                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FLASH                                                                          | Program Memory Size             | 8KB (8K x 8)                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Brown-out Detect/Reset, POR, PWM, WDT                                          | Packaging                       | Tape & Reel (TR)                                                              |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16-SOIC (0.154", 3.90mm Width)                                                 | Oscillator Type                 | Internal                                                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -40°C ~ 125°C (TA)                                                             | Number of I/O                   | 13                                                                            |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2 (1 Year)                                                                     | Manufacturer Standard Lead Time | 6 Weeks                                                                       |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lead free / RoHS Compliant                                                     | EEPROM Size                     | -                                                                             |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CIP-51 8051 Busy Bee Microcontroller IC 8-Bit 25MHz 8KB (8K x 8) FLASH 16-SOIC | Data Converters                 | A/D 12x12b                                                                    |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8-Bit                                                                          | Core Processor                  | CIP-51 8051                                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | I <sup>2</sup> C, SMBus, SPI, UART/USART                                       |                                 |                                                                               |
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|  | Part#: <a href="#">EFM8BB21F16G-C-QSOP24R</a><br>Description: IC MCU 8BIT 16KB FLASH 24QSOP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB10F8G-A-QFN20R</a><br>Description: IC MCU 8BIT 8KB FLASH 20QFN      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EFM8BB10F8G-A-SOIC16</a><br>Description: IC MCU 8BIT 8KB FLASH 16SOIC     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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