

EFM8BB31F64G-B-QFN32R



**SILICON LABS**

**Part Number:** [EFM8BB31F64G-B-QFN32R](#)

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

**Description:** IC MCU 8BIT 64KB FLASH 32QFN

**Data sheet:**  [EFM8BB3 Datasheet](#)

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

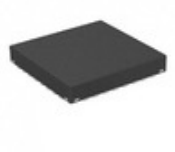
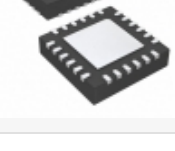
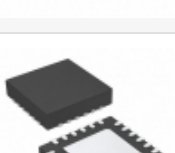
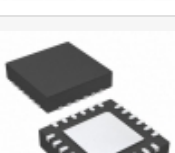
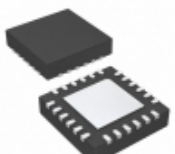
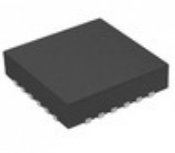
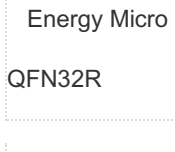
**Ship From:** Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |                                 |                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EFM8BB31F64G-B-QFN32R                                                                 | Manufacturer                    | <a href="#">Energy Micro (Silicon Labs)</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 8BIT 64KB FLASH 32QFN                                                          | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 87857 pcs                                                                             | Data sheet                      | <a href="#">EFM8BB3 Datasheet</a>           |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>                                             | Voltage - Supply (Vcc/Vdd)      | 2.2 V ~ 3.6 V                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32-QFN (4x4)                                                                          | Speed                           | 50MHz                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Busy Bee                                                                              | RAM Size                        | 4.25K x 8                                   |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FLASH                                                                                 | Program Memory Size             | 64KB (64K x 8)                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Brown-out Detect/Reset, POR, PWM, WDT                                                 | Packaging                       | Tape & Reel (TR)                            |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 32-UFQFN Exposed Pad                                                                  | Oscillator Type                 | Internal                                    |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -40°C ~ 85°C (TA)                                                                     | Number of I/O                   | 29                                          |
| 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 50MHz 64KB (64K x 8) FLASH 32-QFN (4x4) | Data Converters                 | A/D 20x12b, D/A 4x12b                       |
| 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="#">EFM8BB31F64G-B-QSOP24R</a><br>Description: IC MCU 8BIT 64KB FLASH 24QSOP    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-A-QFN32R</a><br>Description: IC MCU 8BIT 64KB FLASH 32QFN      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-B-QFP32R</a><br>Description: IC MCU 8BIT 64KB FLASH 32QFP      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-A-QFN24R</a><br>Description: IC MCU 8BIT 64KB FLASH 24QFN      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64I-B-5QFN32R</a><br>Description: EFM8 8051 8-BIT MCU, INDUSTRIAL  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64I-B-5QFN32</a><br>Description: EFM8 8051 8-BIT MCU INDUSTRIAL G  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-A-QSOP24</a><br>Description: IC MCU 8BIT 64KB FLASH 24QSOP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-B-QFN32</a><br>Description: IC MCU 8BIT 64KB FLASH 32QFN       | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EFM8BB31F64G-A-QFP32R</a><br>Description: IC MCU 8BIT 64KB FLASH 32QFP      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64I-B-QFN24R</a><br>Description: IC MCU 8BIT 64KB FLASH 24QFN      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EFM8BB31F64G-B-QFP32</a><br>Description: IC MCU 8BIT 64KB FLASH 32QFP       | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-B-QFN24R</a><br>Description: IC MCU 8BIT 64KB FLASH 24QFN      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64I-B-4QFN24R</a><br>Description: EFM8 8051 8-BIT MCU, AEC-Q100, A | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-A-QSOP24R</a><br>Description: IC MCU 8BIT 64KB FLASH 24QSOP    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64I-B-4QFN24</a><br>Description: EFM8 8051 8-BIT MCU AEC-Q100, AU  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM8BB31F64G-A-QFP32</a><br>Description: IC MCU 8BIT 64KB FLASH 32QFP       | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EFM8BB31F64G-B-QSOP24</a><br>Description: IC MCU 8BIT 64KB FLASH 24QSOP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |

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