

EFM32TG225F16-BGA48T



**SILICON LABS**

**Part Number:** [EFM32TG225F16-BGA48T](#)

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

**Description:** IC MCU 32BIT 16KB FLASH 48VFBGA

**Data sheet:**  [EFM32TG Ref Manual](#)  
 [EFM32TG225 Datasheet](#)

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

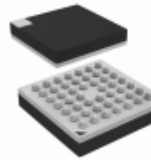
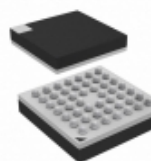
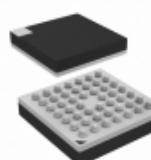
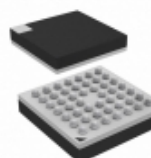
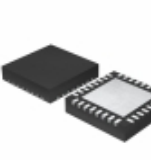
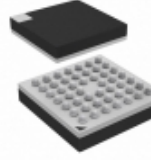
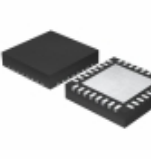
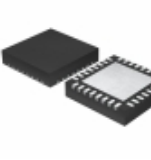
**Ship From:** Hong Kong

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Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                              |                                 |                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EFM32TG225F16-BGA48T                                                                         | Manufacturer                    | <a href="#">Energy Micro (Silicon Labs)</a>                                |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 16KB FLASH 48VFBGA                                                              | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                 |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 51107 pcs                                                                                    | Data sheet                      | <a href="#">EFM32TG Ref Manual</a><br><a href="#">EFM32TG225 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                                    | Voltage - Supply (Vcc/Vdd)      | 1.85 V ~ 3.8 V                                                             |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 48-BGA (4x4)                                                                                 | Speed                           | 32MHz                                                                      |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Tiny Gecko                                                                                   | RAM Size                        | 4K x 8                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                                        | Program Memory Size             | 16KB (16K x 8)                                                             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown-out Detect/Reset, DMA, PS, POR, PWM, WDT                                               | Packaging                       | Tray                                                                       |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 48-VFBGA                                                                                     | Oscillator Type                 | Internal                                                                   |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -40°C ~ 85°C (TA)                                                                            | Number of I/O                   | 37                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ARM® Cortex®-M3 Tiny Gecko Microcontroller IC 32-Bit 32MHz 16KB (16K x 8) FLASH 48-BGA (4x4) | Data Converters                 | A/D 4x12b, D/A 1x12b                                                       |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                       | Core Processor                  | ARM® Cortex®-M3                                                            |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EBI/EMI, I²C, IrDA, SmartCard, SPI, UART/USART                                               |                                 |                                                                            |
| Component-World.com is a Reliable Stocking Distributor of Electronic Components. We specialize in all Energy Micro (Silicon Labs) series electronic components. We have 51107 pieces of Energy Micro (Silicon Labs) EFM32TG225F16-BGA48T in stock available now. Request a quote from electronics components distributor at Component-World.com, our sales team will contact you within 24 hours.<br>RFQ Email: <a href="mailto:info@Components-World.com">info@Components-World.com</a> |                                                                                              |                                 |                                                                            |

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|  | Part#: <a href="#">EFM32TG230F8-QFN64</a><br>Description: IC MCU 32BIT 8KB FLASH 64QFN      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM32TG225F16-BGA48</a><br>Description: IC MCU 32BIT 16KB FLASH 48VFBGA  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM32TG225F32-BGA48T</a><br>Description: IC MCU 32BIT 32KB FLASH 48VFBGA | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EFM32TG230F8-QFN64T</a><br>Description: IC MCU 32BIT 8KB FLASH 64QFN     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EFM32TG222F32-QFP48T</a><br>Description: IC MCU 32BIT 32KB FLASH 48TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM32TG230F16-QFN64T</a><br>Description: IC MCU 32BIT 16KB FLASH 64QFN   | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM32TG222F16-QFP48T</a><br>Description: IC MCU 32BIT 16KB FLASH 48TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">EFM32TG210F8-QFN32T</a><br>Description: IC MCU 32BIT 8KB FLASH 32QFN     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">EFM32TG210F32-QFN32T</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN   | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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