

EFM32TG842F32-QFP64T



SILICON LABS



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Part Number: [EFM32TG842F32-QFP64T](#)

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

Description: IC MCU 32BIT 32KB FLASH 64TQFP

Data sheet:  [EFM32TG Ref Manual](#)  
 [EFM32TG842 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

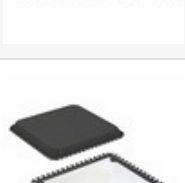
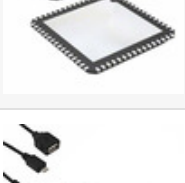
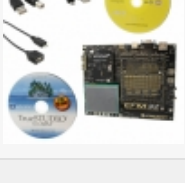
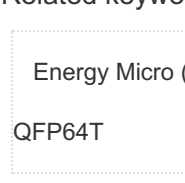
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |                                  |                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EFM32TG842F32-QFP64T                                              | Manufacturer                     | <a href="#">Energy Micro (Silicon Labs)</a>                                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 32KB FLASH 64TQFP                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                      |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 48955 pcs                                                         | Data sheet                       | <a href="#">EFM32TG Ref Manual</a><br><a href="#">EFM32TG842 Datasheet</a>                      |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                         | Voltage - Supply (Vcc/Vdd)       | 1.85 V ~ 3.8 V                                                                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 64-TQFP (10x10)                                                   | Speed                            | 32MHz                                                                                           |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Tiny Gecko                                                        | RAM Size                         | 4K x 8                                                                                          |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                             | Program Memory Size              | 32KB (32K x 8)                                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT | Packaging                        | Tray                                                                                            |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 64-TQFP                                                           | Other Names                      | EFM32TG842F32-QFP64-T<br>EFM32TG842F32-T<br>EFM32TG842F32-T-ND                                  |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                          | Operating Temperature            | -40°C ~ 85°C (TA)                                                                               |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 53                                                                | 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 32KB (32K x 8) FLASH 64-TQFP (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 8x12b, D/A 1x12b                                              | Core Size                        | 32-Bit                                                                                          |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ARM® Cortex®-M3                                                   | Connectivity                     | I <sup>2</sup> C, IrDA, SmartCard, SPI, UART/USART                                              |
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|  <div>SILICON LABS</div> | Part#: <a href="#">EFM32TG840F16-QFN64</a><br>Description: IC MCU 32BIT 16KB FLASH 64QFN    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
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|  <div>SILICON LABS</div> | Part#: <a href="#">EFM32WG230F256-QFN64T</a><br>Description: IC MCU 32BIT 256KB FLASH 64QFN | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
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|  <div>SILICON LABS</div> | Part#: <a href="#">EFM32TG840F8-QFN64T</a><br>Description: IC MCU 32BIT 8KB FLASH 64QFN     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
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|  <div>SILICON LABS</div> | Part#: <a href="#">EFM32WG-MCP3850</a><br>Description: BOARD MCU PLUGIN WONDER GECKO DK     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
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|  <div>SILICON LABS</div> | Part#: <a href="#">EFM32WG230F128-QFN64</a><br>Description: IC MCU 32BIT 128KB FLASH 64QFN  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  <div>SILICON LABS</div> | Part#: <a href="#">EFM32WG-DK3850</a><br>Description: KIT DEV EFM32 WONDER GECKO            | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |

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