

EFM32TG840F16-QFN64T



**SILICON LABS**

Part Number: [EFM32TG840F16-QFN64T](#)

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

Description: IC MCU 32BIT 16KB FLASH 64QFN

Data sheet:  [EFM32TG Ref Manual](#)  
 [EFM32TG840 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

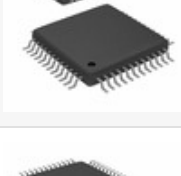
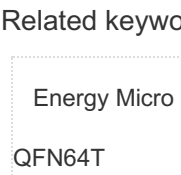
Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |                                  |                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                               | EFM32TG840F16-QFN64T                            | Manufacturer                     | <a href="#">Energy Micro (Silicon Labs)</a>                                                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 16KB FLASH 64QFN                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                        | 45869 pcs                                       | Data sheet                       | <a href="#">EFM32TG Ref Manual</a><br><a href="#">EFM32TG840 Datasheet</a>                            |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>       | Voltage - Supply (Vcc/Vdd)       | 1.85 V ~ 3.8 V                                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                   | 64-QFN (9x9)                                    | 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, LCD, POR, PWM, WDT | Packaging                        | Tray                                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                            | 64-VFQFN Exposed Pad                            | Other Names                      | 336-4584<br>EFM32TG840F16-QFN64-T<br>EFM32TG840F16-QFN64T-ND<br>EFM32TG840F16-T<br>EFM32TG840F16-T-ND |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                        | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                     |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                             | 56                                              | 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 64-QFN (9x9)          |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                           | A/D 8x12b, D/A 2x12b                            | Core Size                        | 32-Bit                                                                                                |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                            | ARM® Cortex®-M3                                 | Connectivity                     | EBI/EMI, I²C, IrDA, SmartCard, SPI, UART/USART                                                        |
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| RELATED PRODUCTS                                                                   |                                                                                             |                                                            |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------|
|  | Part#: <a href="#">EFM32TG842F8-QFP64</a><br>Description: IC MCU 32BIT 8KB FLASH 64TQFP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32TG840F32-QFN64</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32TG842F16-QFP64</a><br>Description: IC MCU 32BIT 16KB FLASH 64TQFP   | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32TG822F8-QFP48T</a><br>Description: IC MCU 32BIT 8KB FLASH 48TQFP    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">EFM32TG825F8-BGA48</a><br>Description: IC MCU 32BIT 8KB FLASH 48VFBGA    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
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|--------------------------------------------------|--------------------------------------------------|-----------------------------------|--------------------------------------------------|
| Related keywords for EFM32TG840F16-QFN64T        |                                                  |                                   |                                                  |
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