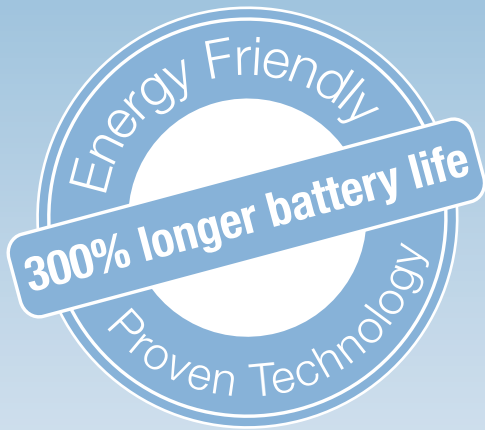




# EFM<sup>®</sup>32

*... the world's most energy friendly microcontrollers*

**32-bit ARM Cortex-M0 and Cortex-M3 microcontrollers for:**

- Energy, gas, water and smart metering • Alarm and security systems
- Health and fitness applications • Industrial and home automation

## EFM32 increases battery life by reducing the total energy consumption

### 1. Very low active power consumption

EFM32 only uses 160  $\mu\text{A}/\text{MHz}$  with a 3 volts power supply while running application code



### 2. Reduced processing time

The low power, high performance 32-bit Cortex-M3 and Cortex-M0 reduce the spent time in active mode



### 3. Very fast wake-up time

Short 2  $\mu\text{s}$  wake-up time supports high efficiency energy modes and increases responsiveness



### 4. Ultra-low standby current

Full RAM and CPU retention + POR + BOD + RTC while using only 0.9  $\mu\text{A}$  (Energy Mode 2)



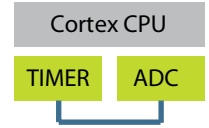
### 5. Autonomous peripheral operation

Applications can perform advanced tasks without using the Cortex CPU



### 6. PRS - Peripheral Reflex System

Predictable and fast signalling between peripherals without any CPU intervention



### 7. Well architected Energy Modes

Optimize your application with 5 flexible Energy Modes and sub  $\mu\text{A}$  operation



### 8. Extremely energy efficient peripherals

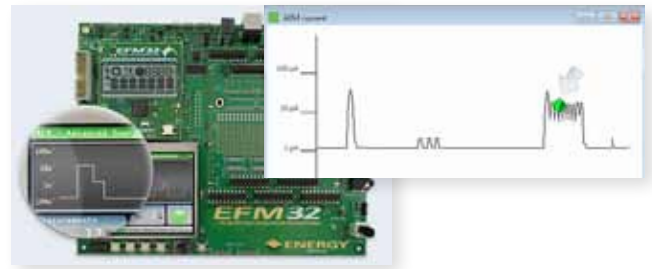
- **ADC:** 12-bit, 1 Msps at only 350  $\mu\text{A}$
- **Analog Comparator:** using as little as 100 nA
- **LCD Controller:** 8x36 segments at only 0.55  $\mu\text{A}$
- **LEUART:** Full UART @ 9600 bps using only 150 nA
- **AES:** 128/256-bit AES crypto-engine in only 54/75 cycles

### 9. AEM - Advanced Energy Monitoring

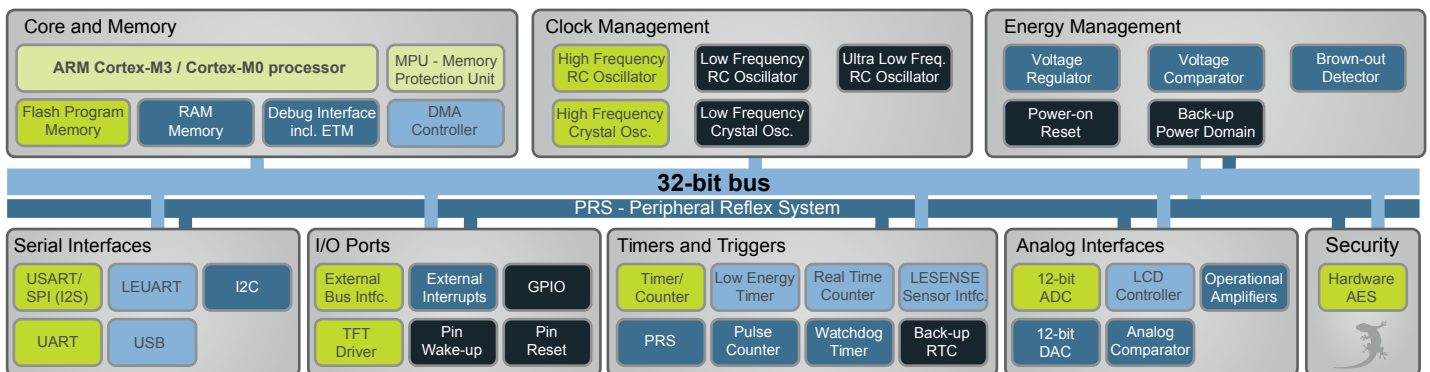
Measure and review your prototype's current consumption profile in real-time on our starter kits

### 10. Simplicity Studio and energyAware software

Fast design cycles, power profiling and energy debugging of application code to remove current drains



## EFM32 includes the most energy friendly peripherals and energy modes



| EFM32 with 3V power supply.<br>Real application from memory. | EM0<br>Run Mode              | EM1<br>Sleep Mode           | EM2<br>Deep Sleep  | EM3<br>Stop Mode                                              | EM4<br>Shutoff Mode             |
|--------------------------------------------------------------|------------------------------|-----------------------------|--------------------|---------------------------------------------------------------|---------------------------------|
| Current consumption                                          | 160 $\mu\text{A}/\text{MHz}$ | 45 $\mu\text{A}/\text{MHz}$ | 0.9 $\mu\text{A}$  | 0.6 $\mu\text{A}$                                             | 20 nA                           |
| Wake-up time                                                 | -                            | 0                           | 2 $\mu\text{s}$    | 2 $\mu\text{s}$                                               | 160 $\mu\text{s}$               |
| Wake-up events                                               | Any                          | Any                         | 32 kHz peripherals | Async IRQ, I2C slave, Analog Comparators, Voltage Comparators | Reset, GPIO rising/falling edge |
| CPU (Cortex-M3/M0)                                           | On                           | -                           | -                  | -                                                             | -                               |
| High frequency peripherals                                   | Available                    | Available                   | -                  | -                                                             | -                               |
| Low frequency peripherals                                    | Available                    | Available                   | Available          | -                                                             | -                               |
| Asynchronous peripherals                                     | Available                    | Available                   | Available          | Available                                                     | -                               |
| Full CPU and SRAM retention                                  | On                           | On                          | On                 | On                                                            | -                               |
| Power-on Reset/Brown-out Detector                            | On                           | On                          | On                 | On                                                            | On                              |

| Zero<br>GECKO<br>Cortex-M0 |        | 20 Zero Gecko MCUs<br>Memory Options (KB)<br>Flash<br>RAM |         |         |  | GPIO Pins |   | USB | LCD (max) | USART/SPI<br>(I2S) | LEUART | I2C | Timer<br>(PWM) | RTC | LETIMER | PCNT | Watchdog | ADC (pins) | DAC (pins) | ACMP (pins) | OPAMP | LESENSE | EBI | AES | Size (mm) | Ordering No.<br>(X = Flash size in KB) |
|----------------------------|--------|-----------------------------------------------------------|---------|---------|--|-----------|---|-----|-----------|--------------------|--------|-----|----------------|-----|---------|------|----------|------------|------------|-------------|-------|---------|-----|-----|-----------|----------------------------------------|
| EFM32ZG103                 | 4<br>1 | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 9         | - | -   | -         | 1 (1)              | -      | 1   | 2 (6)          | 1   | -       | 1    | 1        | -          | -          | -           | -     | -       | -   | -   | 4x4       | EFM32ZG103FX-QFN16                     |
| EFM32ZG108                 | 4<br>1 | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 17        | - | -   | -         | 1 (1)              | -      | 1   | 2 (6)          | 1   | -       | 1    | 1        | -          | -          | 1 (2)       | -     | -       | -   | -   | 5x5       | EFM32ZG108FX-QFN24                     |
| EFM32ZG110                 | 4<br>1 | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 17        | - | -   | -         | 1 (1)              | -      | 1   | 2 (6)          | 1   | -       | 1    | 1        | 1 (2)      | -          | 1 (2)       | -     | -       | -   | -   | 5x5       | EFM32ZG110FX-QFN24                     |
| EFM32ZG210                 | 4<br>1 | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 24        | - | -   | -         | 1 (1)              | -      | 1   | 2 (6)          | 1   | -       | 1    | 1        | 1 (4)      | -          | 1 (2)       | -     | -       | -   | -   | 6x6       | EFM32ZG210FX-QFN32                     |
| EFM32ZG222                 | 4<br>1 | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 37        | - | -   | -         | 1 (1)              | -      | 1   | 2 (6)          | 1   | -       | 1    | 1        | 1 (4)      | -          | 1 (5)       | -     | -       | -   | -   | 7x7       | EFM32ZG222FX-QFP48                     |

| Tiny<br>GECKO<br>Cortex-M3 |        | 23 Tiny Gecko MCUs<br>Memory Options (KB)<br>Flash<br>RAM |         |         |  | GPIO Pins |   | USB | LCD (max) | USART/SPI<br>(I2S) | LEUART | I2C | Timer<br>(PWM) | RTC | LETIMER | PCNT | Watchdog | ADC (pins) | DAC (pins) | ACMP (pins) | OPAMP | LESENSE | EBI | AES | Size (mm) | Ordering No.<br>(X = Flash size in KB) |
|----------------------------|--------|-----------------------------------------------------------|---------|---------|--|-----------|---|-----|-----------|--------------------|--------|-----|----------------|-----|---------|------|----------|------------|------------|-------------|-------|---------|-----|-----|-----------|----------------------------------------|
| EFM32TG108                 | 4<br>1 | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 17        | - | -   | -         | 1 (1)              | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | -          | -          | 2 (4)       | -     | Y*      | -   | -   | 5x5       | EFM32TG108FX-QFN24                     |
| EFM32TG110                 | 4<br>1 | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 17        | - | -   | -         | 2 (1)              | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (2)      | 2 (1)      | 2 (4)       | 3     | Y       | -   | Y   | 5x5       | EFM32TG110FX-QFN24                     |
| EFM32TG210                 |        | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 24        | - | -   | -         | 2 (1)              | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (4)      | 2 (1)      | 2 (5)       | 3     | Y       | -   | Y   | 6x6       | EFM32TG210FX-QFN32                     |
| EFM32TG222                 |        | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 37        | - | -   | -         | 2 (1)              | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (8)      | 2 (2)      | 2 (12)      | 3     | Y       | -   | Y   | 7x7       | EFM32TG222FX-QFP48                     |
| EFM32TG230                 |        | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 56        | - | -   | -         | 2 (1)              | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | 3     | Y       | -   | Y   | 9x9       | EFM32TG230FX-QFN64                     |
| EFM32TG822                 |        | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 37        | - | -   | 8x11      | 2 (1)              | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (4)      | 2 (1)      | 2 (4)       | 3     | Y       | -   | Y   | 7x7       | EFM32TG822FX-QFP48                     |
| EFM32TG840                 |        | 8<br>2                                                    | 16<br>4 | 32<br>4 |  | 56        | - | -   | 8x20      | 2 (1)              | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (8)      | 2 (2)      | 2 (8)       | 3     | Y       | -   | Y   | 9x9       | EFM32TG840FX-QFN64                     |

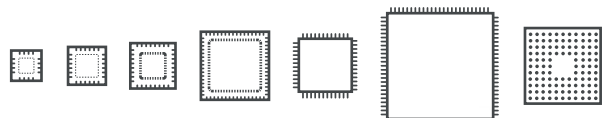
| Gecko<br>Cortex-M3 |  | 25 Gecko MCUs<br>Memory Options (KB)<br>Flash<br>RAM |          |           |  | GPIO Pins |   | USB | LCD  | USART/SPI<br>+ UART | LEUART | I2C | Timer<br>(PWM) | RTC | LETIMER | PCNT | Watchdog | ADC (pins) | DAC (pins) | ACMP (pins) | OPAMP | LESENSE | EBI | AES | Size (mm) | Ordering No.<br>(X = Flash size in KB) |
|--------------------|--|------------------------------------------------------|----------|-----------|--|-----------|---|-----|------|---------------------|--------|-----|----------------|-----|---------|------|----------|------------|------------|-------------|-------|---------|-----|-----|-----------|----------------------------------------|
| EFM32G200          |  | 16<br>8                                              | 32<br>8  | 64<br>16  |  | 24        | - | -   | -    | 2                   | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (4)      | 1 (1)      | 2 (5)       | -     | -       | -   | -   | 6x6       | EFM32G200FX-QFN32                      |
| EFM32G210          |  |                                                      |          | 128<br>16 |  | 24        | - | -   | -    | 2                   | 1      | 1   | 2 (6)          | 1   | 1       | 1    | 1        | 1 (4)      | 1 (1)      | 2 (5)       | -     | -       | -   | Y   | 6x6       | EFM32G210FX-QFN32                      |
| EFM32G222          |  | 32<br>8                                              | 64<br>16 | 128<br>16 |  | 37        | - | -   | -    | 2                   | 2      | 1   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (4)      | 1 (1)      | 2 (12)      | -     | -       | -   | Y   | 7x7       | EFM32G222FX-QFP48                      |
| EFM32G230          |  | 32<br>8                                              | 64<br>16 | 128<br>16 |  | 56        | - | -   | -    | 3                   | 2      | 1   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | -     | -       | -   | Y   | 9x9       | EFM32G230FX-QFN64                      |
| EFM32G280          |  | 32<br>8                                              | 64<br>16 | 128<br>16 |  | 86        | - | -   | -    | 3+1                 | 2      | 1   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | -     | -       | Y   | Y   | 14x14     | EFM32G280FX-QFP100                     |
| EFM32G290          |  | 32<br>8                                              | 64<br>16 | 128<br>16 |  | 90        | - | -   | -    | 3+1                 | 2      | 1   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | -     | -       | Y   | Y   | 10x10     | EFM32G290FX-BGA112                     |
| EFM32G840          |  | 32<br>8                                              | 64<br>16 | 128<br>16 |  | 56        | - | -   | 4x24 | 3                   | 2      | 1   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (8)       | -     | -       | -   | Y   | 9x9       | EFM32G840FX-QFN64                      |
| EFM32G880          |  | 32<br>8                                              | 64<br>16 | 128<br>16 |  | 86        | - | -   | 4x40 | 3+1                 | 2      | 1   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | -     | -       | Y** | Y   | 14x14     | EFM32G880FX-QFP100                     |
| EFM32G890          |  | 32<br>8                                              | 64<br>16 | 128<br>16 |  | 90        | - | -   | 4x40 | 3+1                 | 2      | 1   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | -     | -       | Y** | Y   | 10x10     | EFM32G890FX-BGA112                     |

| Giant<br>GECKO<br>Cortex-M3 |  | 48 Giant Gecko MCUs<br>Memory Options (KB)<br>Flash<br>RAM |           |             |            | GPIO Pins |   | USB | LCD  | USART/SPI<br>+ UART | LEUART | I2C | Timer<br>(PWM) | RTC | LETIMER | PCNT | Watchdog | ADC (pins) | DAC (pins) | ACMP (pins) | OPAMP | LESENSE | EBI | AES | Package<br>Size (mm) | Ordering No.<br>(X = Flash size in KB) |
|-----------------------------|--|------------------------------------------------------------|-----------|-------------|------------|-----------|---|-----|------|---------------------|--------|-----|----------------|-----|---------|------|----------|------------|------------|-------------|-------|---------|-----|-----|----------------------|----------------------------------------|
| EFM32GG230                  |  | 256<br>32                                                  | 512<br>32 | 1024<br>128 |            | 56        | - | -   | -    | 3                   | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | 3     | Y       | -   | Y   | 9x9                  | EFM32GG230FX-QFN64                     |
| EFM32GG280                  |  | 256<br>32                                                  | 512<br>32 | 1024<br>128 |            | 86        | - | -   | -    | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | 3     | Y       | Y   | Y   | 14x14                | EFM32GG280FX-QFP100                    |
| EFM32GG290                  |  | 256<br>32                                                  | 512<br>32 | 1024<br>128 |            | 90        | - | -   | -    | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | 3     | Y       | Y   | Y   | 10x10                | EFM32GG290FX-BGA112                    |
| EFM32GG330                  |  | 64<br>32                                                   | 128<br>32 | 256<br>32   | 512<br>128 | 52        | Y | -   | -    | 3                   | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (12)      | 3     | Y       | -   | Y   | 9x9                  | EFM32GG330FX-QFN64                     |
| EFM32GG380                  |  | 64<br>32                                                   | 128<br>32 | 256<br>32   | 512<br>128 | 81        | Y | -   | -    | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (12)      | 3     | Y       | Y   | Y   | 14x14                | EFM32GG380FX-QFP100                    |
| EFM32GG390                  |  | 64<br>32                                                   | 128<br>32 | 256<br>32   | 512<br>128 | 86        | Y | -   | -    | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (12)      | 3     | Y       | Y   | Y   | 10x10                | EFM32GG390FX-BGA112                    |
| EFM32GG840                  |  | 256<br>32                                                  | 512<br>32 | 1024<br>128 |            | 56        | - | -   | 8x20 | 3                   | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (8)       | 3     | Y       | -   | Y   | 9x9                  | EFM32GG840FX-QFN64                     |
| EFM32GG880                  |  | 256<br>32                                                  | 512<br>32 | 1024<br>128 |            | 86        | - | -   | 8x36 | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | 3     | Y       | Y** | Y   | 14x14                | EFM32GG880FX-QFP100                    |
| EFM32GG890                  |  | 256<br>32                                                  | 512<br>32 | 1024<br>128 |            | 90        | - | -   | 8x36 | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (16)      | 3     | Y       | Y** | Y   | 10x10                | EFM32GG890FX-BGA112                    |
| EFM32GG940                  |  | 64<br>32                                                   | 128<br>32 | 256<br>32   | 512<br>128 | 52        | Y | -   | 8x20 | 3                   | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (4)       | 3     | Y       | -   | Y   | 9x9                  | EFM32GG940FX-QFN64                     |
| EFM32GG980                  |  | 64<br>32                                                   | 128<br>32 | 256<br>32   | 512<br>128 | 81        | Y | -   | 8x36 | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (12)      | 3     | Y       | Y** | Y   | 14x14                | EFM32GG980FX-QFP100                    |
| EFM32GG990                  |  | 64<br>32                                                   | 128<br>32 | 256<br>32   | 512<br>128 | 86        | Y | -   | 8x36 | 3+2                 | 2      | 2   | 3 (9)          | 1   | 1       | 3    | 1        | 1 (8)      | 2 (2)      | 2 (12)      | 3     | Y       | Y** | Y   | 10x10                | EFM32GG990FX-BGA112                    |

\* Reduced LESENSE functionality without DAC

\*\* Reduced LCD Controller functionality when using EBI (External Bus Interface)

Operation range: 1.8 - 3.8 volts, -40 - 85 C  
On-chip memory: Up to 1 MB Flash and 128 KB RAM  
General Purpose IO: Up to 90 pins with 20 mA drive strength



QFN16 (4x4 mm)

QFP48 (7x7 mm, 0.5 pitch)

QFN24 (5x5 mm, 0.65 pitch)

QFP100 (14x14 mm, 0.5 pitch)

QFN32 (6x6 mm, 0.65 pitch)

BGA112 (10x10 mm, 0.8 pitch)

QFN64 (9x9 mm, 0.50 pitch)



# Simplicity

EFM32 microcontrollers are supported by development tools designed to significantly cut design time



**Development Kits**  
EFM32-G2xx-DK  
EFM32-G8xx-DK (LCD support)

[energymicro.com/tools](http://energymicro.com/tools)



**Starter Kits**  
EFM32-G8xx-STK (LCD support)  
EFM32-TG-STK3300 (LCD support)

[energymicro.com/tools](http://energymicro.com/tools)



**Online Documentation**  
Free manuals, datasheets, application notes, software library and code examples.

[energymicro.com/downloads](http://energymicro.com/downloads)



**Simplicity Studio**  
Instant, one-click access to all your EFM32 tools, software, news, documents and resources.

[energymicro.com/simplicity](http://energymicro.com/simplicity)



**energyAware Profiler**  
Unique real-time power profiler and energy debugger finds and removes energy bugs from your code.

[energymicro.com/software](http://energymicro.com/software)

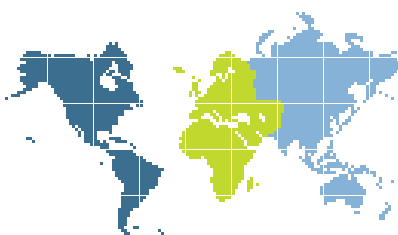


**energyAware Designer**  
Fast and easy EFM32 MCU configuration tool that instantly resolves pin conflicts.

[energymicro.com/software](http://energymicro.com/software)

Abatron  
AVIX-RT  
CMX  
CodeSourcery  
CooCox  
ELNEC  
FreeRTOS  
GOPEL  
Hitex  
IAR Systems

Keil  
Lauterbach  
Micrium µC/OS  
OLIMEX  
RK-SYSTEM  
Rowley Associates  
SEGGER  
SMX RTOS  
ThreadX RTOS  
Wicentric



**Large community**  
The EFM32 microcontrollers are supported by major third party partners and the ARM Cortex community.

[energymicro.com/tools/third-party-network](http://energymicro.com/tools/third-party-network)

**Need Help?**  
Contact the EFM32 experts directly at Energy Micro HQ. Submit requests via your own support page here:

[support.energymicro.com](http://support.energymicro.com)

[energymicro.com](http://energymicro.com)  
[support.energymicro.com](http://support.energymicro.com)



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[EFM32GG280F1024](#) [EFM32GG280F256](#) [EFM32GG280F512](#) [EFM32GG290F1024](#) [EFM32GG290F256](#)  
[EFM32GG290F512](#) [EFM32GG330F1024](#) [EFM32GG330F128](#) [EFM32GG330F256](#) [EFM32GG330F512](#)  
[EFM32GG330F64](#) [EFM32GG380F1024](#) [EFM32GG380F128](#) [EFM32GG380F256](#) [EFM32GG380F512](#)  
[EFM32GG380F64](#) [EFM32GG390F1024](#) [EFM32GG390F128](#) [EFM32GG390F256](#) [EFM32GG390F512](#)  
[EFM32GG390F64](#) [EFM32GG840F1024](#) [EFM32GG840F256](#) [EFM32GG840F512](#) [EFM32GG880F1024](#)  
[EFM32GG880F256](#) [EFM32GG880F512](#) [EFM32GG890F1024](#) [EFM32GG890F256](#) [EFM32GG890F512](#)  
[EFM32GG940F1024](#) [EFM32GG940F128](#) [EFM32GG940F256](#) [EFM32GG940F512](#) [EFM32GG940F64](#)  
[EFM32GG980F1024](#) [EFM32GG980F128](#) [EFM32GG980F256](#) [EFM32GG980F512](#) [EFM32GG980F64](#)  
[EFM32GG990F1024](#) [EFM32GG990F128](#) [EFM32GG990F256](#) [EFM32GG990F512](#) [EFM32GG990F64](#)  
[EFM32TG222F16](#) [EFM32TG222F8](#) [EFM32ZG210F4](#) [EFM32ZG210F8](#) [EFM32ZG210F16](#) [EFM32GG880F512-QFP100T](#) [EFM32GG980F512-QFP100T](#) [EFM32GG330F1024-QFN64T](#) [EFM32G222F32-QFP48](#)  
[EFM32GG940F1024-QFN64T](#) [EFM32GG840F1024-QFN64T](#) [EFM32GG290F512-BGA112T](#) [EFM32G222F64-QFP48T](#)  
[EFM32GG230F512-QFN64T](#) [EFM32GG290F1024-BGA112T](#) [EFM32GG980F1024-QFP100T](#) [EFM32GG990F1024-BGA112T](#) [EFM32GG890F512-BGA112T](#) [EFM32GG990F512-BGA112T](#) [EFM32G222F32-QFP48T](#)  
[EFM32GG890F1024-BGA112T](#) [EFM32GG280F1024-QFP100T](#) [EFM32G222F128-QFP48T](#) [EFM32G222F64-QFP48](#)  
[EFM32GG940F512-QFN64T](#) [EFM32GG330F512-QFN64T](#) [EFM32G222F128-QFP48](#) [EFM32GG380F512-QFP100T](#)  
[EFM32GG840F512-QFN64T](#) [EFM32GG390F1024-BGA112T](#) [EFM32GG880F1024-QFP100T](#) [EFM32GG380F1024-QFP100T](#) [EFM32GG390F512-BGA112T](#) [EFM32ZG-STK3200](#)