

New Product Announcement

Now at Mouser: Silicon Labs' Energy-Friendly Giant Gecko 12 MCUs for Smart Devices

March 13, 2019 – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [EFM32 Giant Gecko 12](#) microcontroller family from [Silicon Labs](#). Designed to provide advanced features and security during [ultra-low-power](#) performance, the microcontrollers offers low-energy peripherals to deliver autonomous performance while sleeping. The GG12 microcontrollers are suitable for a broad range of applications requiring advanced processing during deep sleep, including [Internet of Things](#) (IoT) devices, [sensors](#), smart meters, [industrial](#) automation, home [security](#), and [health and fitness](#) wearables.

The [Silicon Labs EFM32](#) Giant Gecko 12 family, available from Mouser Electronics, offers many of the features of the [Giant Gecko 11](#) microcontrollers in a smaller package, and adds a unique pulse density modulation (PDM) sensor interface to support PDM microphones and delta-sigma sensors. The microcontrollers boast a 32-bit Arm® Cortex®-M4 processor running at 72 MHz with up to 1 Mbyte of on-chip flash and 192 Kbytes of RAM. Combining this power with rich analog features, the devices deliver an advanced user experience previously attainable only on high-power-consumption microcontrollers.

The devices' low-energy peripherals include two 12-bit analog-to-digital converters (ADCs), a digital-to-analog converter (DAC), capacitive touch, and up to 83 general-purpose inputs/outputs (GPIO). Additionally, the low-energy sensor interface enables fully autonomous processing capabilities during sleep mode. The microcontrollers include robust security features, including a unique cryptographic hardware engine that supports AES, ECC, SHA, and True Random Number Generator (TRNG).

The EFM32 Giant Gecko 12 family is supported by the [Thunderboard GG12 kit](#) for prototyping and evaluation. The Thunderboard GG12 kit includes an integrated Segger J-Link debugger, two PDM microphones, tri-color LEDs, and breakout ports, and push buttons. The board also includes an out-of-box demo for the microcontroller's PDM sensor interface, making it an ideal choice for the development of high-quality, low-power [audio](#) input applications.

To learn more, visit www.mouser.com/silicon-labs-giant-gecko-12.

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About Mouser Electronics

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About Silicon Labs

Silicon Labs is a leading provider of silicon, software and solutions for a smarter, more connected world. The company's award-winning technologies are shaping the future of the Internet of Things, Internet infrastructure, industrial automation, consumer and automotive markets. Their world-class engineering team creates products focused on performance, energy savings, connectivity and simplicity.

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For further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Corporate Communications & Media Relations Manager
(817) 804-7764
Kelly.DeGarmo@mouser.com