

EFM[®]32

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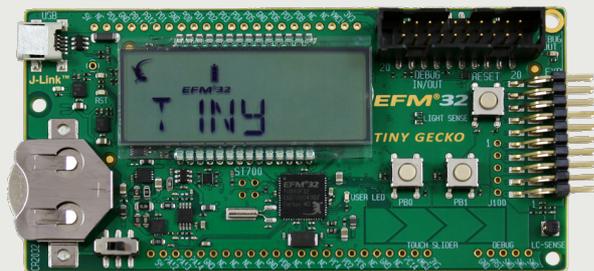
EFM32 Tiny Gecko Starter Kit

EFM32TG-STK3300

The EFM32 Tiny Gecko Starter Kit is a platform for rapid prototyping of ultra low power microcontroller applications. It consists of a single board with a EFM32TG840F32 MCU and some peripherals specifically chosen to demonstrate the Tiny Gecko Low Energy Sensor Interface (LESENSE). An ambient light sensor to sense differences in light level and an inductive-capacitive metal sensor that can sense proximity to metal are mounted on the board. In addition to this a 160 segment LCD and a capacitive touch slider is included along with user buttons and a LED and a software development environment. All available I/O is placed on breakout pads for easy access.

The development kit contains a unique Advanced Energy Monitoring (AEM) system that allows designers to have full control over their application's energy consumption.

The on-board J-Link debugger enables extremely simple setup. The onboard peripherals, breakout pads and the software development environment makes the starter kit a complete basis for getting started with low energy application design and prototyping.



- **Advanced Energy Monitor (AEM)**
 - Precise measurement of current and voltage
 - 0.1 μ A to 50 mA measurement range
 - The AEM measures both the voltage and current of the VMCU rail
 - Always available when the kit is connected to USB
- **Software**
 - Comprehensive set of board support functions
 - 32 KB evaluation versions of:
 - IAR Embedded Workbench[®]
- **User Interface**
 - 160 segment LCD
 - 1 User LED
 - 2 pushbutton switches
 - 1 system reset pushbutton switch
 - Touch slider
 - Inductive-Capacitive metal sensor
 - Ambient light sensor
 - EFM32 Op-amp module evaluation footprint
- **Debugging**
 - On-board SEGGER J-Link USB debugger
 - ARM 20 pin JTAG/SWD Debug in/out connector
 - Debugging when MCU is powered from battery (debugger still needs USB-power)
- **Power**
 - Two separate power domains allowing for accurate current and voltage measurements of the application energy consumption.
 - 5V USB supply
 - 3V 20mm Coin cell battery supply.
- **Available I/O**
 - Expansion header for plug-in modules.
 - Breakout pads:
 - All EFM32 GPIO not used by LCD
 - 3V3, 5V unregulated, VMCU, and GND
- **MCU support**
 - 32.768 kHz crystal
 - 32 MHz crystal
- **Selectable Supply**
 - Switch to select between regulated 3.3V supply from USB or unregulated supply from battery.

1 Ordering Information

Table 1.1. Available Products

Ordering Code	Description
EFM32TG-STK3300	EFM32 Tiny Gecko Starter Kit with EFM32TG840F32 MCU

1.1 Energy Micro Corporate Headquarters

Postal Address	Visitor Address	Technical Support
Energy Micro AS P.O. Box 4633 Nydalen N-0405 Oslo NORWAY	Energy Micro AS Sandakerveien 118 N-0484 Oslo NORWAY	support.energymicro.com Phone: +47 40 10 03 01

www.energymicro.com

Phone: +47 23 00 98 00

Fax: + 47 23 00 98 01

1.2 Global Contacts

Visit **www.energymicro.com** for information on global distributors and representatives or contact **sales@energymicro.com** for additional information.

Americas	Europe, Middle East and Africa	Asia and Pacific
www.energymicro.com/americas	www.energymicro.com/emea	www.energymicro.com/asia