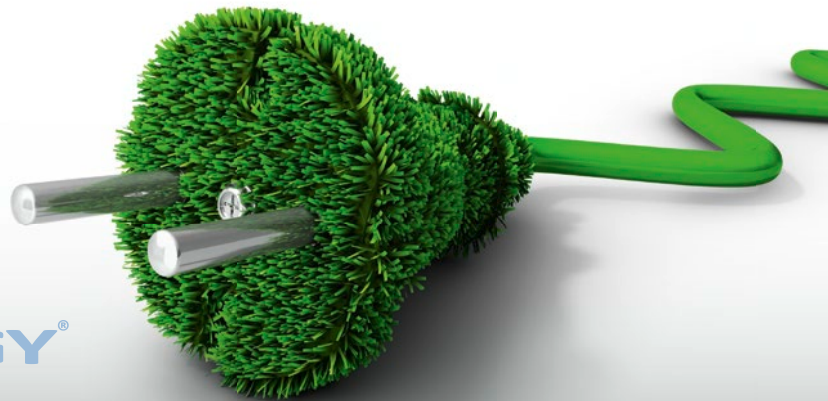




DESIGN KIT

Energy Harvesting Solution To Go



“Energy Harvesting Solution To Go” provides following benefits:

- Complete solution from harvesting of the energy, energy management and storage
- Easy transfer of this solution to your design
- Evaluation of the highest efficient components in the market

**Order Code IC-744 885
Version 1.0**



Energy Harvesting



WR-COM
651 005 161 21

WE-CBF
742 792 022

WR-PHD
610 020 211 21

WE-TPC 4828
744 043 220

WR-TBL
691 411 710 002

WE-EHPI
744 885 400 70

WE-TPC 3816
744 031 100

Battery Holder
795 231 41

WE-CBF
742 792 66

WL-SMCW
150 060 YS7 500 0
150 060 BS7 500 0
150 060 RS7 500 0

WS-TSS
430 182 043 816

WE-PD2
S11 100 017

EMC COMPONENTS | INDUCTORS | TRANSFORMERS | RF COMPONENTS | CIRCUIT PROTECTION | EMC SHIELDING MATERIAL | CONNECTORS | SWITCHES | ASSEMBLY TECHNIQUE | POWER ELEMENTS

Important information: Würth Elektronik's design kits contain reference components. These components correspond with the current product development status on the day of supply. Exchange of the reference components to components with up-to-date product development status is not carried out automatically. No liability is taken for the use of these reference components. Therefore, please request new samples prior to releases for series production and product release.

Please check datasheets on www.we-online.com for specifications. Würth Elektronik eiSos GmbH & Co. KG, EMC & Inductive Solutions. © 2012

www.we-online.com

All products
in stock!

Silicon Labs' EFM32 Giant Gecko Starter Kit

The EFM32GG-STK3700 provides

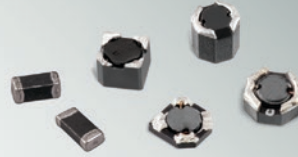
- Evaluation of the world's most energy friendly microcontroller EFM32 Gecko family
 - On board: EFM32GG990F1024 with ARM Cortex M3, 48 MHz, 1024 kB Flash, 128 kB RAM, LCD Controller, USB, Low Energy Sense, Backup Power Domain, etc.
 - 200 μ A/MHz in active mode and Deep Sleep Mode with 1.1 μ A with various functions running in this mode on 1 μ A level
- Debugging with a SEGGER J-Link debugger
- Energy Debugging with an integrated Advanced Energy Monitoring (AEM) and Voltage Monitoring



Würth Elektronik – more than you expect

More of our smallest inductors:

- WE-TPC SMD Shielded Tiny Power Inductors (Size 2811, 2813, 2828 and 3510)
- WE-EHPI Energy Harvesting Power Inductor
- WE-PMI Power Multilayer Inductor



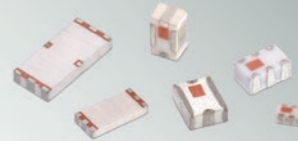
More components designed for sensor network:

- WE-KI SMD Wire Wound Ceramic Inductor
- WE-MK Multilayer Ceramic SMD Inductor



More LTCC components:

- WE-LPF Multilayer Chip Low-Pass Filter
- WE-BPF Multilayer Chip Band-Pass Filter
- WE-BAL Multilayer Chip Balun
- WE-MCA Multilayer Chip Antenna



More chip bead ferrites:

- WE-CBF Chip Bead Ferrites



More connectors:

- WERI Connectors



WE WEK00000001 ECF0000000000000000

Würth Elektronik offers more complete solutions, such as sample kits with continuous free re-fills, EMC lab support, seminars, technical design books and much more!

Want more info about your kit? Please visit www.we-online.com/harvest

www.we-online.com

more than you expect



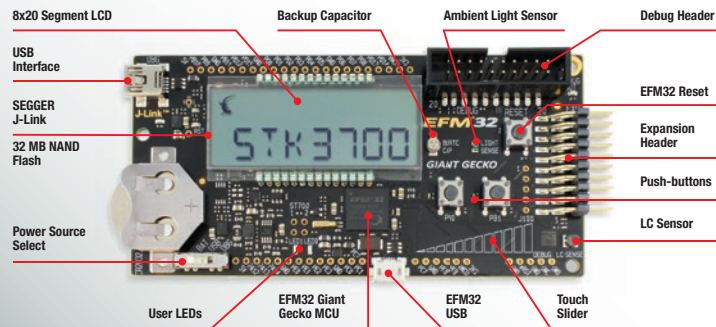
Energy Harvesting Solution To Go



- Silicon Labs' EFM32 Giant Gecko Starter Kit
- Linear Technology Multi-Source Energy Harvester
- Most efficient passive components



Silicon Labs' EFM32 Giant Gecko Starter Kit

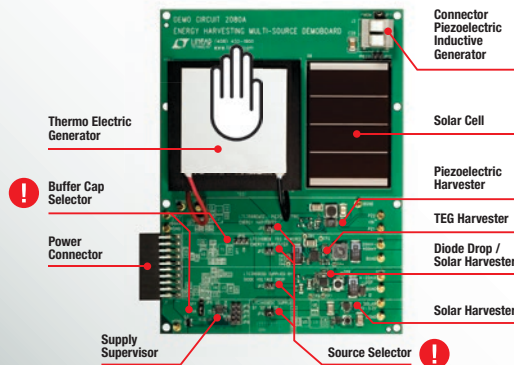


To start your energy harvesting evaluation, please

- Download and install **Simplicity Studio** (www.silabs.com/simplicity-studio)
- Download and install the **ARM Cortex-M development tools** of your choice
- Simplicity Studio includes **all tools, drivers, code and documents** you need:
 - **energyAware Commander** – MCU, kit and prototype programmer and updater
 - **energyAware Profiler** – real-time energy debugger and current monitor
 - all the free application notes and software examples in one place
 - EFM32 datasheets, kit manuals, presentations and brochures

More information on www.we-online.com/harvest

Linear Technology Multi-Source Energy Harvester










Features:

- On-board solar cell and thermo electric generator
- Connector for optional inductive or piezoelectric generator
- Four harvesters for different energy source types
- **!** Optionally set jumper JP9 to ON for an extended buffer capacitance for all harvesters OR set jumper JP10 to ON for an extended buffer capacitance for the TEG harvester
- Connect your application to the power connector

Getting Started:

- Decide for your energy harvesting source
- Set the appropriate jumper JP1 to JP4 to feed the harvested source to the power connector
- **! Caution:** Only one source selector MUST be set at a time
- Only one buffer cap selector MUST be set to ON at a time

More information on www.we-online.com/harvest

 <p>Solar</p>	<p>Solar Cell LTC3105 - 400mA boost converter, MPP control, 250mV start-up LTC3459 + LTC2935 – Micropower monolithic booster www.linear.com/product/LTC3105</p>	
 <p>Thermal</p>	<p>Peltier Element – TEG LTC3108 - Ultralow voltage boost converter and system manager LTC3109 - Auto-polarity version of LTC3108 www.linear.com/product/LTC3108</p>	
 <p>Piezo</p>	<p>Piezo Element LTC3588 - Piezoelectric energy harvesting power supply www.linear.com/product/LTC3588-1</p>	
 <p>Magnetic</p>	<p>Inductive Generator LTC3588 - Inductive energy harvesting power supply www.linear.com/product/LTC3588-1</p>	