

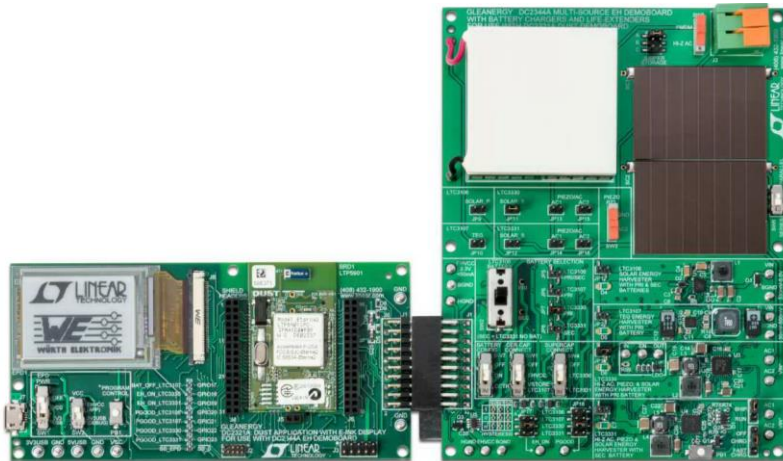
Würth Electronics Midcom Inc.
 121 Airport Drive · P.O. Box 1330 · Watertown SD
 57201-6330, USA
 T: +1 (605) 886 4385 · Toll Free: +1 (800) 643 2661
 www.we-online.com



Würth Electronics Product Spotlight Gleanergy Demonstration Kit

What does Gleanergy mean? Würth Electronics combines the word glean (meaning to harvest) together with energy, which creates “to harvest energy”, or “Gleanergy”!

Würth Electronics, in partnership with Linear Technology, created a Gleanergy Demonstration Kit. Gleanergy is a convenient system provided to enable users to customize the development platform for their specific use case and to make a complete working prototype. The Gleanergy development platform demonstrates the ability to utilize one, or multiple, ambient energy sources to power a wireless sensor node and extend the life of a primary or secondary battery.



Features:

- Wireless Sensor Node Development Platform
- Multi-source energy harvester with battery charging and life extenders
- Possibly ambient energy sources include light, heat, vibration, stress/strain, high intensity AC magnetic fields and micro-sized rotational or oscillatory electromagnetic generators
- Linear Technology DC2321A - Dust application demo board with E-Ink display
- Linear Technology DC2344A - Multi-source energy harvester with batter charging and life extenders
- Linear Technology DC2510A - Shielded board for use with DC2321A



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Wurth Electronic Featured Components:

Power Inductors:

- WE-EHPI Energy Harvesting Power Inductor
- WE-TPC Shielded Tiny Power Inductor
- WE-PD2 Power Inductor

Capacitors:

- WCAP-CSGP Ceramic Chip Capacitor, Various X5R, X7R

Connectors:

- WR-PHD Pin Headers
- WR-TBL Terminal Block
- WR-PHD Shunt/Jumper
- WR-COM Micro USB 2.0 Connector
- WR-FPC ZIF Connector

Switches

- WS-TASV SPST Tactile Switch
- WS-SLSU SPDT Slide Switch
- WS-DISV 5x SPST Dip Switch

Board Features:

Linear Technology DC2321A

- LTP5901 Dust assembly including ARM Cortex-M3 processor embedded with SmartMesh IP networking software
- E-Ink display for user feedback
- Two coulomb counters for battery data measurement
- Shielded board headers DC2510A and programming for development



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Linear Technology DC2344A

- On-board thermoelectric generator and solar cells (series or parallel) in DC2344
- Rechargeable and non-rechargeable batteries
- Four energy harvester ICs which charge / extend life of batteries
- Bank of ceramic capacitors and supercapacitors for energy storage
- Completely customizable IC settings and routing connections

