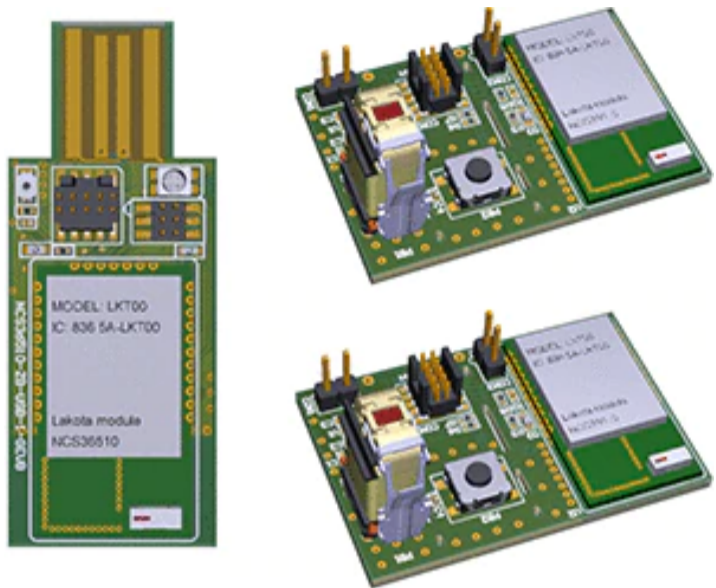


## STR-NCS36510-ZB-EH-1-GEVK: Strata Enabled Zigbee® Green Power Kit

The STR-NCS36510-ZB-EH-1-GEVK demonstrates the use of [NCS36510](#) in a battery-free Zigbee® Green Power application. The kit consists of one Zigbee® Coordinator (ZC) USB device, which interfaces with Strata, and two energy-harvesting nodes, which act as Zigbee® Green Power Devices (ZGPD). By pressing the switch on each of these devices, energy is generated and used to power the [NCS36510](#) module. Within Strata, the module sends out Zigbee® Green Power frames to control the smart home scene. One switch controls the lighting in the scene, and acts as a battery-free light switch when pressed. The other switch represents a door sensor. The advanced tab displays a live feed of debug messages being sent. See the Strata webpage at [www.onsemi.com/strata](http://www.onsemi.com/strata) for more details!



[Click to Download Strata](#)

### Features and Applications

#### Features

- 2.4 GHz IEEE® 802.15.4 module Pre-Certified with FCC and Zigbee® PRO R21
- Firmware based on the DSR ZBOSS Zigbee® 3.0 & Zigbee® Green Power Stacks
- 32-bit ARM® Cortex-M3 Processor
- Ultra-Low Transmit Power Consumption (as low as 6.9 mW)
- Ultra-Low Receive Power Consumption (as low as 6.6 mW)
- Multiple Sleep Modes (Including 0.65 uA Coma Mode Sleep Current, 0.18 uA Coma Mode Leakage Current)
- Embedded Memory Configurations (640 kB FLASH and 48kB RAM)
- Exceptional Receiver Sensitivity of -99 dBm
- Programmable Output Power Up to ~8 dBm





- Smart Home Security, Automation, and Lighting
- Building and Industrial Automation

Evaluation/Development Tool Information					
Product	Status	Compliance	Short Description	Parts Used	Action
STR-NCS36510-ZB-EH-1-GEVK	Active	Pb-free	Strata Enabled Zigbee® Green Power Kit	EMI2121MTTAG , MM3Z6V2ST1G , MM3Z6V2ST1G , NCP170BXV330T2G , NCP170BXV330T2G , NCS36510MNTXG , NSR1030QMUTWG , NSR1030QMUTWG	<a href="#">Buy</a>

Technical Documents			
Type	Document Title	Document ID/Size	Rev
Software	Strata Setup Software for Microsoft Windows	<a href="#">Strata setup Windows - 82652 KB</a>	3.0.1.1
Eval Board: BOM	STR-NCS36510-ZB-EH-1-GEVK Bill of Materials (ROHS Compliant)	<a href="#">STR-NCS36510-ZB-EH-1-GEVK_BOM_ROHS - 361 KB</a>	0
Eval Board: Gerber	STR-NCS36510-ZB-EH-1-GEVK Gerber Layout Files (Zip Format)	<a href="#">STR-NCS36510-ZB-EH-1-GEVK_GERBER - 12978 KB</a>	0
Eval Board: Schematic	STR-NCS36510-ZB-EH-1-GEVK Schematic	<a href="#">STR-NCS36510-ZB-EH-1-GEVK_SCHEMATIC - 226 KB</a>	0
Eval Board: Manual	STR-NCS36510-ZB-EH-1-GEVK User Manual	<a href="#">STR-NCS36510-ZB-EH-1-GEVK_USER_MANUAL - 1400 KB</a>	0
White Papers	Creating an Energy Harvesting Zigbee® Green Power™ Switch for Smart Homes and Buildings	<a href="#">TND6343/D - 1723 KB</a>	1
Video	Strata Enabled Zigbee Green Power Kit	<a href="#">WVD17731/D</a>	
Video	Energy-Harvesting Battery-less Switches for Smart Homes and Buildings	<a href="#">WVD17741/D</a>	

Previously Viewed Products

Select Product...

