

GreenPeak Develops Ultra Low Power Standards-Based Communication Technology



Increased awareness of the need for energy conservation is rapidly gaining momentum. Our living environments are huge energy consumers and provide us with a tremendous opportunity to conserve energy. For example, lights can be switched off when no one is in a room at home, and temperature can be lowered when employees are not using a meeting room at work. With the help of sensor networks, consumers and plant managers can better identify targets for energy reduction and institute automated conservation procedures like switching off lights and lowering temperature. The end goal is smarter, more efficient homes, buildings and industrial plants.

Until now, the cost and difficulty of installing wiring has limited the widespread deployment of sensor networks. Wireless networks overcome this problem, but up till now, have been limited by their reliance on batteries, which incur high maintenance cost.

To facilitate the widespread deployment of wireless sensor networks, GreenPeak has developed ultra low power standards based communication technology that utilizes energy harvested from the environment (i.e., solar, vibration, mechanical key presses). This technology reduces the need for frequent battery replacement or eliminates the use of batteries altogether.

The configuration of extended low-power sensor networks can be facilitated by using the patented low-power mesh network technology from GreenPeak, which enables wireless devices to

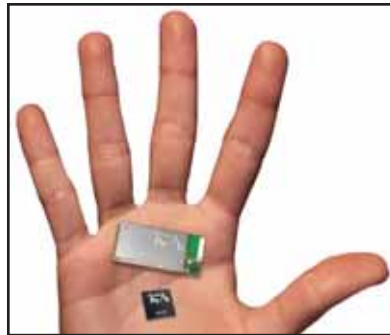
build a reliable and efficient communication chain.

To facilitate the installation, this wireless mesh network technology is self-forming and self-healing. Once a sensor node is powered, it will automatically link to the wireless network. This 'plug and play' approach will enable lower wage technicians to execute a 100 percent correct installation without the need to understand the technical aspects of setting up a wireless network. This can result in significant lower labor cost. The self-healing technology allows nodes to automatically find alternative communication routes when the signal quality decreases or when infrastructures or buildings change.

For ease of mind of its customers and to allow its devices to interoperate with other standard-compliant devices, GreenPeak fully commits to development based on open industry standards. The GreenPeak technology is based on the IEEE 802.15.4 wireless network standard and supports the open global standards of the ZigBee Alliance.

In short, GreenPeak provides wireless, battery-free solutions to sensor networks that enhance reliability and comply with industry standards.

GreenPeak's long-term vision is "to build a smarter world" by developing a communications platform with advanced sensing capabilities that enables us to better control our lives, homes and environment. We believe that in a connected world, people can enjoy a safer, more comfortable environment with less energy waste.



For more information visit www.greenpeak.com.



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GreenPeak is a fabless semiconductor, module and software company offering ultra low power wireless network communication technology for sense and control applications.

GreenPeak is a leading provider of standard, ultra-low-power technology for wireless sensors networks. Utilizing energy harvesting, this battery-free technology greatly reduces the cost and difficulty of maintaining wireless sensor networks.

GreenPeak provides **wireless, battery-free** solutions to sensor networks that enhance **reliability** and comply with **industry standards**.

Ultra Low Power Wireless Control Networks

GreenPeak's comprehensive offering includes transceiver chips, communication modules and software, implementation tools and development kits.

GreenPeak takes great pride in offering customers a seamless path for integrating wireless capability into equipment for building automation, safety and security, asset management and health care.