Controller chip supports all communication between ZigBee RF4CE devices and set-top box, gateway

GreenPeak Technologies announced the general availability of its GP510 communication controller chip, supporting all communication between ZigBee RF4CE enabled devices and the set-top box or gateway. The chip is intended to meet the increasing market demand for making the set-top box the ZigBee RF4CE hub for the home. According to the company, superior Wi-Fi interference robustness in combination with patented antenna diversity technology results in approximately twice the reliable range (compared to similar systems with only one antenna) in a crowded wireless 2.4 GHz environment, enabling full home coverage. The integrated RF filtering simplifies the RF design complexity which enables low cost single layer applications using simple PCB antennas requiring no shielding and a minimum number of external components. The MAC and network layer are integrated for efficient data communication management and the embedded ZigBee RF4CE network layer enables fast and simple integration. The chip is fully compliant with the IEEE 802.15.4 standard, providing robust spread spectrum data communication with a highly secure encrypted data flow. A complete suite of interfaces to the main processor is available (SPI, TWI or UART-based).

GreenPeak Technologies
+31 30 262 1157, www.greenpeak.com [1]

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[1] http://www.greenpeak.com