



Innovation for Growth

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Bluetooth Low Energy

Ultra-compact, dedicated electronics combined with the technological advantages of industrial standards such as Bluetooth Low Energy.

Prevas incorporates Bluetooth Low Energy in the ongoing effort to minimize power consumption.

“Expanding our range of ultra-low-power technologies by including Bluetooth Low Energy in our existing designs is a natural step for us. Bluetooth has been around since the last millennium, but only now with version 4.0 of the Bluetooth core specification are we unlocking the real potential for ultra-low-power designs. This latest update focuses specifically on minimizing the power consumption in both idle and active mode, enabling even coin cell battery powered devices to run for many months without recharging. Besides extending the recharge interval for rechargeable devices, this offers the possibility to completely abandon the recharge option in many cases, significantly reducing material cost and complexity”, says Engineering Manager Jakob Koed Prevas A/S.

Bluetooth devices featuring the Low Energy version of the specification are referred to as either Bluetooth Smart devices (typically sensor devices) communicating exclusively using the low energy scheme, or Bluetooth Smart Ready devices capable of both low energy and standard communication through a dual radio design. A very long and growing list of Bluetooth Smart Ready devices exist, including most recent smartphones, tablets and laptops. This means that Bluetooth Smart devices are capable of communicating with a host of devices right from product launch, avoiding the typical “the-chicken-or-the-egg” syndrome.

Prevas’ experience from ultra-compact custom electronics, used for instance in intelligent credit cards, goes hand-in-hand with the technological benefits from industrial standards optimized for real-life applications. A recent example is meeting the extreme energy saving requirements of our intelligent powered cards in credit card format developed for Cardlab. In this application, Bluetooth Low Energy is used for receiving wide variety of card data including financial and access control data from a smart phone app.

“Using commercially available System-On-Chip (SOC) solutions is the optimal approach for most of our designs, as the shortest route to the target, in turn imposing the lowest risk in the development project. Several such solutions incorporating Bluetooth Low Energy are available. For instance, we find that SOCs are even applicable for our state-of-the-art compact electronics”, comments Jakob Koed.

For more information and follow-up:

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About Prevas

With cutting edge expertise in embedded systems and industrial IT, Prevas contributes by providing innovative solutions that create growth. Prevas was founded in 1985, and the company is the main supplier and development partner to leading companies in industries such as life science, telecommunications, automotive, defense, energy and engineering. Offices are located in Sweden, Denmark, Norway and India. The company has approximately 600 employees. Prevas has been listed on the NASDAQ OMX Nordic Exchange in Stockholm since 1998. For further information, see www.prevas.com.