

DECT Ultra-Low Energy ICs launched

ECN Europe

[Dialog](#) [1] has launched what it claims are the world's first DECT ULE (ultra-low energy) compatible ICs – its SmartPulse range.



[2]

Picture: Dialog

Dialog's vision is for end products integrating SmartPulse wireless sensors that self configure to connect with a home's DECT ULE enabled hub device or IP gateway. End users will also be able to manage SmartPulse systems remotely via a smartphone, laptop or tablet PC.

Members of the SmartPulse series include the SC14WSMDATA (data) and SC14WSMDECT (data and audio) wireless sensor nodes, which run for up to 10 years on a single AAA battery pack, and the SC14CVMDECT base station device that can be integrated into standalone hub products or internet gateways – allowing the remote management of SmartPulse enabled systems over an internet connection.

The SC14WSMDATA and SC14WSMDECT sensor nodes integrate the baseband, radio transceiver, antenna and power amplifier into a single system-in-package IC. In sleep mode the programmable devices use less than 3uA. The SC14WSMDECT sensor further integrates audio functionality, enabling the creation of battery powered voice devices. The SC14CVMDECT base station device supports both voice and data, connecting with up to six voice and 256 data sensor nodes, and supports the DECT ULE, DECT 6.0 and CAT-iq standards. The system-in-package IC, that integrates a UART interface for external hosts, is easily programmable using its AT command set and requires no wireless network planning.

All SmartPulse devices transmit 232-bit packet data in the 1870-1930MHz licensed

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DECT band. With a link budget of 123dB, systems that integrate SmartPulse sensors can reliably stream data throughout even large family homes and gardens.

The Dialog SmartPulse devices meet certification standards for all global markets – FCC, EU and J-DECT. All three devices will be available in high-volume quantities from October 2011 in 25x29mm, 123-pin packages.

SmartPulse is Dialog's first wireless technology launch since it acquired SiTel Semiconductor in February 2011.

[SOURCE](#) [3]

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<http://www.ecnmag.com/blogs/2011/09/dect-ultra-low-energy-ics-launched>

Links:

[1] <http://www.dialog-semiconductor.com/>

[2] <http://ecneurope.files.wordpress.com/2011/09/150911-dialog.jpg>

[3] <http://ecneurope.wordpress.com/2011/09/15/dect-ultra-low-energy-ics-launched/>