

Dust announces world's first SoC for WSN

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Dust Networks made a major announcement at Electronica by unveiling the world's first System-on-chip for wireless sensor networks. Called Mote-on-Chip, the SoC integrates all the hardware and software functions for creating distributed sensor networks onto a single chip. Dust claims five-fold lower power consumption than Zigbee, the elimination of the need for wired routers, and a 10-fold reduction in the overall price of adding new sensors to an existing network. Mote-on-Chip products are IEEE 802.15.4 compliant and available in 2.4 GHz and narrow-band 900 MHz versions.

Dust's business model is based on supplying its products to OEMs and Emerson's process control division is one their major customers. Emerson has launched a family of low-power wireless sensor networking systems that use of Dust Networks' Time Synchronized Mesh Protocol (TSMP) including temperature sensors, pressure sensors, fluid level sensors, and fluid flow sensors. British Petroleum (BP), Emerson's beta-tester, now says that going wireless has reduced the cost of adding new sensors by 10-fold, enabling them to deploy many more sensors than they could afford to have in the past. Read Dust Networks' press release here http://www.dustnetworks.com/news/pr/2006_Nov_14.html