

Wireless Monitoring Applications Get Boost from 32-bit MCU/System-on-Chip with Embedded 2.4GHz Radio

GENEVA, Sept. 22 /PRNewswire-FirstCall/ -- STMicroelectronics announces the STM32W family, which features an integrated IEEE 802.15.4 radio to deliver a true System-on-Chip platform supporting embedded wireless sensor network design.

IEEE 802.15.4 is an open standard for low-power, low-data-rate radio in the unlicensed 2.4 GHz band, and is widely used in communication and networking applications such as smart energy metering, home automation, security and monitoring equipment, and remote controls.

The ZigBee™ Alliance has specified IEEE 802.15.4 as the radio platform for the industry-standard ZigBee protocol, which is popular in applications such as sensor networking and automatic meter reading.

ST's new STM32W family implements the IEEE 802.15.4 physical (PHY) layer as well as the Media Access Control (MAC) layer, giving developers the flexibility to target ZigBee-compliant specifications or to build any network wireless protocol which interfaces with the standardized IEEE 802.15.4 MAC.

Other well known protocols include ZigBee RF4CE for radio-frequency remote controls or 6LoWPAN for wireless embedded Internet solutions. Software support for the STM32W family includes libraries for the latest ZigBee PRO specification, as well as ZigBee RF4CE, and the IEEE 802.15.4 MAC.

Source URL (retrieved on 03/05/2015 - 2:00pm):

http://www.wirelessdesignmag.com/product-releases/2009/09/wireless-monitoring-applications-get-boost-32-bit-mcu/system-chip-embedded-24ghz-radio?qt-digital_editions=0