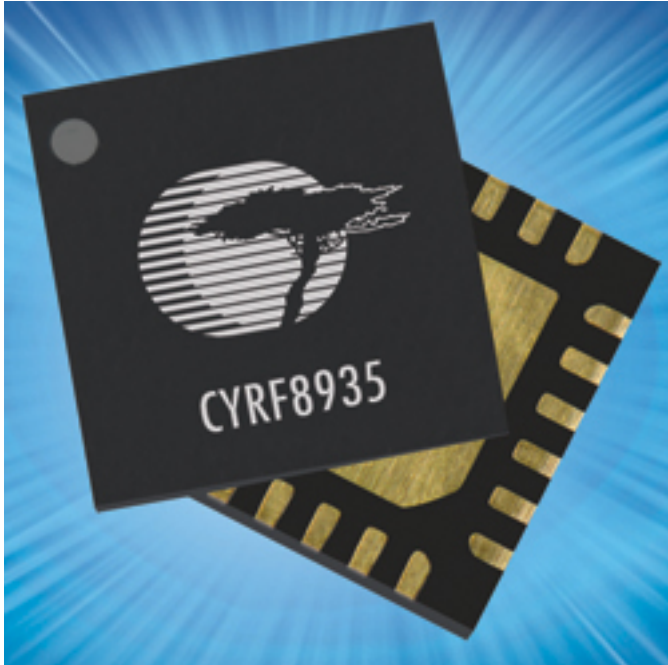


2.4-GHz WirelessUSB NL Transceiver Intended for Wireless Applications



Cypress Semiconductor introduced its next-generation 2.4-GHz WirelessUSB Radio-on-a-Chip. The new WirelessUSB NL gives manufacturers Cypress's renowned quality and robust performance along with very low power consumption for wireless keyboards, mice, remote controls and other Human Interface Devices (HIDs). The new devices are offered in 4 x 4 mm QFN packages, in bare die, and in wafer form, enabling low-cost chip-on-board manufacturing.

WirelessUSB NL boasts an impressive -87dBm receive sensitivity at 1 Mbps. This enhanced sensitivity enables longer range operation and allows for lower-power transmit signals. The device features very low active and standby current (less than 1 uA), enabling battery life to be more than a year for normal mouse usage. WirelessUSB NL also has a closed-loop internal architecture that minimizes signal frequency drift for very robust radio performance. This robustness minimizes retries during transmission enabling lower power consumption and allows for long payload lengths of up to 255 bytes. As with other Cypress WirelessUSB families, the NL device offers superior performance in the presence of common 2.4-GHz interference from sources such as WiFi, Bluetooth, cordless phones and microwaves. The device is highly integrated, requiring less than 12 non-critical supporting components to make a complete mouse. This integration reduces board space, BOM cost and manufacturing cost, while improving overall product quality. More information on the new WirelessUSB NL product is available at www.cypress.com/go/wirelessusbni

"Cypress's WirelessUSB has built a strong reputation as the premium solution for wireless HID products with its quality and performance," said Jayant Somani, Senior Marketing Director of Cypress's HID Business Unit. "With our bare die and wafer

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form offerings, WirelessUSB NL extends our portfolio of wireless products to support a variety of customer needs.”

Fühlen, a leading mouse manufacturer, has selected WirelessUSB NL for its new A50G wireless mouse. The new 2.4-GHz wireless mouse offers best-in-class battery life, performance and interference immunity. Rex Lai, President of Fühlen said, “The WirelessUSB NL solution offered us low-power and high performance at the right price. We were able to get the A50G to market quickly with great design support from Cypress.”

WirelessUSB NL is complemented by Cypress’s enCoRe II/V low-voltage, highly integrated microcontrollers, offering manufacturers a single source of supply and support. WirelessUSB NL also supports Cypress’ Agile HID protocol that allows existing WirelessUSB customers to get started quickly on their designs without any additional effort. Reference designs to speed time-to-market are available from Cypress for these solutions.

Availability

WirelessUSB NL is offered in RF-tested 24-QFN packages (CYRF8935A-24LQXC), in bare die (CYRF8935A-4X14C) and in full wafers (CYRF8935A-4XW14C). The die and wafer parts are available today in production volumes. The packaged parts are expected to be in production in the fourth quarter of 2011.

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