Radio-on-a-chip enables three-year battery life for BORND’s E220 wireless mouse

Cypress Semiconductor today announced that BORND has selected Cypress’ 2.4-GHz WirelessUSB-NL radio-on-a-chip for its E220 next-generation wireless mouse. WirelessUSB-NL’s low power consumption enables two AA batteries to power the E220 mouse for up to three years. The long range of WirelessUSB-NL also enables the E220 to operate at a distance of up to 30 meters. BORND will also use Cypress’ enCoRe II and enCoRe V low-voltage companion microcontrollers for the USB dongle and mouse respectively.

WirelessUSB-NL boasts an impressive -87dBm receive sensitivity to enable longer range operations. The device features very low active and standby current (less than 1 uA), and has a closed-loop radio architecture that minimizes signal frequency drift for very robust radio performance. As with other Cypress WirelessUSB families, the WirelessUSB-NL device offers superior performance in the presence of common interference from 2.4-GHz sources such as WiFi, Bluetooth, cordless phones and microwaves.

“The E220 is an outstanding mouse, and we’re pleased to help BORND bring it to market quickly,” said Jayant Somani, Senior Director of worldwide marketing for Cypress’ Data Communication Division. “Battery life and long-range operation are important differentiators for wireless mice, and WirelessUSB-NL offers industry-leading performance in both of these categories.”

“The Cypress WirelessUSB and enCoRe solutions were important components in the BORND E220 mouse, and the super-long battery life and long range connectivity have attracted interest from the market,” said Kevin Zhang, General Manager of BORND. “Equally important was the support our design teams received from Cypress to help get to market quickly.”

WirelessUSB-NL is complemented by Cypress’ enCoRe II and enCoRe 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. More information on the WirelessUSB-NL product is available at www.cypress.com/go/wirelessusbnl [1].

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