NXP chips Provide Unparalleled Performance and Features for RFID Systems

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(PhysOrg.com) -- New UCODE G2iL series deliver leading edge read ranges, unique anti-tampering and privacy protection features.

NXP Semiconductors today introduced its latest UHF solutions for the fashion, retail and electronics markets. The UCODE G2iL and G2iL+ enable leading-edge read ranges based on a simple, cost-effective single antenna solution. In addition, the new chips offer a variety of industry-first features, including a tag tamper alarm, several privacy mode options, and password-protected data transfer or digital switch. Based on its outstanding performance and special features, the new UCODE G2iL series provides high read rates, ultimate flexibility, and best-in-class cost-performance ratios for item-level tagging and authentication in advanced

RFID systems.

“Long read ranges, without the extra cost of a second antenna, and effective privacy protection - combined with a tag tamper alarm - are essential in RFID tags and labels for high-volume consumer goods. Through ongoing evaluation and testing in NXP‘s RFID Application and System Center, we‘ve developed a unique product series that has been optimized for real-life conditions in the retail, fashion and electronic device markets,” said Chris Feige, general manager, tagging and authentication, NXP Semiconductors. “With industry-leading performance and lean memory, the UCODE G2iL is ideal for cost-sensitive RFID applications, while the UCODE G2iL+ introduces many features that are a first in the industry”

“The new UCODE G2iL+ chips offer versatile features that make it ideal for the fashion and electronics markets, as well as other market segments such as product authentication, electronic vehicle tagging and airline tags,” said Maggie Bidlingmaier, global director of sales and marketing at Avery Dennison RFID. “We have been impressed with the performance of the UCODE G2iL and G2iL+ series in our initial tests and look forward to working with NXP to bring new tags and labels to market.”

“The high performance of UCODE G2iL and G2iL+ devices means better read rates and smaller inlays - ultimately enabling more and better RFID solutions across multiple end-use industries,” said Samuli Strömberg, vice president of marketing, RFID, at UPM Raflatac. “We are committed to building on the exceptional sensitivity of the NXP RFID chips to offer the strongest, most reliable read range performance possible.”

The NXP UCODE G2iL and G2iL+ chips offer a single antenna port sensitivity of -18 dBm (decibel in reference to one milliwatt), requiring

only half the RF power to activate the chip compared to previous UCODE devices. This results in long read ranges which match dual antenna port solutions with equal sized antennas. The UCODE G2iL+ further improves both READ and WRITE performance to a staggering -23 dBm when connected to a power supply.

Engineering samples of the UCODE G2iL and G2iL+ are now available for tag and inlay manufacturers with chip volume production starting in June.

Source: NXP