

IoT Products to Experience Major Improvement in Battery Life -- InnoPhase Unveils Extreme Low Power Polar Radio Architecture

Full polar RF architecture improves the battery life of Wi-Fi, LTE, and other popular IoT wireless device protocols by 2 to 8 times

[InnoPhase](#), a new fabless semiconductor company specializing in extreme low power wireless platforms, announces the revolutionary PolaRFusion™ radio architecture. The PolaRFusion architecture moves wireless processing from power-hungry and large analog circuits into the efficient, low-power digital domain. This full polar RF architecture improves the battery life of Wi-Fi, LTE, and other popular IoT wireless device protocols by 2 to 8 times. This longer battery life will fuel a rapid expansion of the battery-based IoT market.

Moving the radio function from the analog to digital domain enables battery-based wireless products to take advantage of Moore's Law for even lower power and smaller die sizes as products move to more advanced semiconductor process nodes. This groundbreaking radio architecture will create a whole new class of low power, IoT products that can cut the cord and be battery-based. Imagine direct cloud-connected smart door locks, security cameras, smart speakers, and patient monitoring equipment with batteries that last for months or even years, not weeks.

“Smart home devices are exhibiting among the strongest growth rates in the consumer electronics category. Developments in AI and features such as voice control are driving sales but mean more power consumption -- which is a challenge for the industry,” said Filipe Oliveira, Senior Market Analyst, Home Electronics, Futuresource Consulting. “Long lasting batteries and the ability to cut the cord can help manufacturers to meet consumer demand for convenience and decluttering.”

The PolaRFusion architecture also integrates low-cost, nonlinear digital signal processors to receive, process, and transmit industry standard protocols under software control with excellent sensitivity, signal output levels, data rates, and other critical RF specifications. The multiprotocol wireless products based on this advanced radio design are in the final stages of development and field testing, with volume production slated for early next year. For additional information on the new PolaRFusion radio platform and for the latest news on upcoming wireless products visit innophaseinc.com.

About InnoPhase

InnoPhase is a fabless wireless semiconductor platform company specializing in extreme low power wireless solutions. The company is headquartered in San Diego, California with additional advanced development centers located in Kista, Sweden, and Shanghai, China. The company developed the industry's first digital PolaRFusion radio architecture. InnoPhase products will provide a complete wireless platform for extreme low power IoT applications. For more information on InnoPhase visit <http://innophaseinc.com>.



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