



Corporate News

Dialog Semiconductor Accelerates IoT Adoption with New Ultra-Low Power Wi-Fi SoC

First Wi-Fi product released from Dialog following the recent closing of the acquisition of Silicon Motion's Mobile Communications product line

London, United Kingdom – June 3, 2019 – [Dialog Semiconductor plc](#) (XETRA:[DLG](#)), a provider of highly integrated power management, AC/DC power conversion, audio, charging and Bluetooth® low energy technology, today has introduced the FC9000. This will be Dialog's first Wi-Fi SoC to be released since the closing of the acquisition of Silicon Motion's Mobile Communications product line on May 31, 2019. The FC9000 is targeted at battery-powered IoT devices such as smart door locks, video monitoring systems, smart thermostats, and wireless sensors enabling direct connectivity to Wi-Fi networks, while typically supporting a battery power lifetime greater than one year.

Previously, devices running on Zigbee, ZWave or Bluetooth standards needed to be paired with an expensive and cumbersome gateway or smartphone to enable connectivity to the cloud, adding complexity and unnecessary costs for IoT adoption. The introduction of the FC9000 overcomes these issues as we move towards a Wi-Fi ubiquitous world.

“The FC9000, the first product in our new VirtualZero™ product line, complements our existing portfolio of leading Bluetooth low energy SoC's for connected devices and represents our next IoT connectivity innovation to pass on to our customers,” said Sean McGrath, Senior VP & GM of Dialog Semiconductor's Connectivity and Audio Business Group. “This Wi-Fi device is the first in a series that we plan to launch which solves major pain points for both manufacturers and end-users around IoT network compatibility and power consumption.”

The FC9000's proprietary power-saving algorithms set a new industry power benchmark, which allows it to operate on just a few microamps, increasing overall battery life for end-devices. Venstar, a leading energy management system supplier and one of the largest global thermostat suppliers, is utilizing the FC9000.

“Thanks to Dialog’s new SoC, our customers are enjoying a more efficient, reliable Wi-Fi sensor and over a year of battery life,” said Steve Dushane, CEO, Venstar. “Being first to market with this technology is giving us a significant competitive advantage.”

The SoC also features a separate hardware accelerated encryption engine that increases the speed of Wi-Fi encryption, such as WPA2-Enterprise and Personal. This support also extends to higher layer commercial grade security encryption, such as TLS, for enabling HTTPS, the modern standard for website security.

The FC9000 is a full offload system for Wi-Fi networking, running the end device’s application code alongside its own. It does not require an external network processor or microcontroller but can operate alongside a microcontroller if desired. The SDK included with the device allows for rapid design implementation with a generous provision of 1.6MB of SRAM on-board memory.

The FC9000 SoC is in volume production today and available as an SoC or integrated module. Both are Wi-Fi Certified. The modules are FCC, IC, and CE certified for worldwide operation.

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Media Contact:

Mark Tyndall
SVP Corporate Development & Strategy
Dialog Semiconductor
Phone: +1 (408) 845 8520
mark.tyndall@diasemi.com
Web: www.dialog-semiconductor.com
Twitter: [@DialogSemi](https://twitter.com/DialogSemi)

About Dialog Semiconductor

Dialog Semiconductor is a leading provider of integrated circuits (ICs) that power mobile devices and the Internet of Things. Dialog solutions are integral to some of today’s leading mobile devices and the enabling element for increasing performance and productivity on the go. From making smartphones more power efficient and shortening charging times, enabling home appliances to be controlled from anywhere, to connecting the next generation of wearable devices, Dialog’s decades of experience and world-class innovation help manufacturers get to what’s next.

Dialog operates a fabless business model and is a socially responsible employer pursuing many programs to benefit the employees, community, other stakeholders and the environment it operates in. Dialog Semiconductor Plc is headquartered in London with a global sales, R&D and marketing organization. In 2018, it had approximately \$1.44 billion in revenue and was one of the fastest growing European public semiconductor companies. It currently has approximately 2000 employees worldwide. The company is listed on the Frankfurt (FWB: DLG) stock exchange (Regulated Market, Prime Standard, ISIN GB0059822006) and is a member of the German TecDax.

For more information, visit www.dialog-semiconductor.com.