NEWS RELEASE

Ambiq Releases Apollo3 Blue with turboSPOT

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Ambiq®, the leader in ultra-low power solutions, today released the Apollo3 Blue Wireless SoC with integrated Bluetooth low energy, updated peripherals, additional memory, an advanced DMA engine and turboSPOT®. This new product extends the capabilities of Ambiq Micro's Apollo Blue family and is available now for battery and energy harvesting powered IoT, hearable, wearable and voice-activated edge devices.

The Apollo3 Blue's turboSPOT brings groundbreaking levels of energy efficiency to mobile, battery powered devices by increasing the computational capabilities of the Arm® Cortex®-M4F core to 96MHz while lowering the active power consumption to <6µA/MHz. An integrated DMA engine combined with the extra computing bandwidth gives designers the flexibility to add more complex sensor processing algorithms to their energy-sensitive products without sacrificing quality or battery life.

The Apollo3 Blue also provides a dedicated second core for the ultra-low power Bluetooth Low Energy 5 connectivity platform providing superior RF throughput and leaving plenty of resources available for user applications. The radio performance and interoperability has already been proven to be reliable and robust in real-world consumer products which are currently shipping in massive volume.

"Ambiq's Sub-threshold Power Optimized Technology (SPOT®) platform continues to bring unprecedented levels of energy efficiency to algorithm providers, ODMs and OEMs," said Aaron Grassian, Ambiq's Vice President of Marketing. "The Apollo family is already being used to bring neural networks to battery-powered hearables and remote controls with always-on voice assistant integration and commands. The Apollo3 Blue further solidifies Ambiq's capabilities to add AI inference engines like voice and predictive sensory processing to ultra-low power edge devices."

For more information about Apollo3 Blue availability, evaluation boards, and the software development kit, contact your local Ambiq sales representative.

About Ambiq

Ambiq was founded in 2010 on the simple yet powerful notion that extremely low power semiconductors are the key to the future of electronics. Through the use of its pioneering and patented Sub-threshold Power Optimized Technology (SPOT) platform, innovative companies around the world are developing differentiated solutions that reduce or eliminate the need for batteries, lower overall system power, and maximize industrial design flexibility.