## Silicon Labs Expands MCU Platform with new 8-bit MCU family

New BB5 family provides more development choices for simple applications.

AUSTIN, Texas, Nov. 14, 2023 / PRNewswire/ -- Silicon Labs (NASDAQ: SLAB), a leader in secure, intelligent wireless technology for a more connected world, today announced the expansion of their microcontroller unit (MCU) development platform with a new family of 8-bit MCUs optimized for price and performance.

These new MCUs join the PG2x family of <u>32-bit MCUs</u> in sharing a single development platform, Silicon Labs <u>Simplicity Studio</u>, which is inclusive of all tools that are required like compilers, integrated development environments, and configurators.

"In today's world, with an ever-expanding list of IoT devices, MCUs play a critical role in embedded computing," said Dhiraj Sogani, Senior Director of Wireless Product Marketing for Silicon Labs. "The new BB5 family of MCUs expands our portfolio to now offer the broadest range of MCU options on the market today."

## Cost-Optimized BB5 8-bit MCUs Reduce Complexity in Embedded Devices

As the applications for embedded computing continue to expand, developers need to be able to select the right hardware for the job. While 32-bit MCUs are ideal for more complex and compute-intensive tasks like machine learning inference or word recognition, there are much simpler tasks that don't require the added power, and cost, of a 32-bit MCU. What has been challenging for developers, however, is that most 8-bit and 32-bit MCUs use different development tools, making it difficult to develop for both, so developers will often absorb the extra development costs despite not needing the greater compute.

That's why Silicon Labs designed its 8-bit and 32-bit MCU offerings to both leverage Silicon Labs Simplicity Studio. This development platform, also shared by Silicon Labs wireless enabled SoCs, drastically simplifies and accelerates the ability of device manufacturers to bring a broad range of devices to market. This eliminates the need for developers to learn two sets of tools and enables them to cost-optimize their devices by selecting the part that best fits the application's need.

Simplicity Studio is also the development platform for Silicon Labs' portfolio of <u>wireless SoCs</u>, allowing developers to develop once and deploy in multiple product variations regardless of whether some are connected and some are not. For example, many consumer products like electric toothbrushes now come in connected and non-connected versions. The connected versions are ideal for consumers who wish to track their brushing habits, while the non-connected versions are for those who simply want to brush. For developers, this means they can develop once and deploy twice – or more – for connected and non-connected products.

## Silicon Labs' BB5 family includes the most performant 8-bit MCUs on the market

The new BB5 family includes the most powerful 8-bit MCUs on the market, as the 50 MHz core frequency in the BB5 family generates 36% more compute power than any other general 8-bit MCU. Ideal for battery-powered applications like power tools, handheld kitchen tools like immersion blenders, and even children's toys, the BB5 family supports a wide range of voltage options, from 1.8 to 5.5 volts, allowing them to last for years in the field on a coin-cell battery. They also come in a variety of packing sizes, from 2 mm x 2 mm for the BB50 MCU, while the BB51 and BB52 MCUs are 3 mm x 3 mm offering additional GPIOs and increased analog functionality. For certain applications, the 8-bit BB52 even offers greater price-performance than competitive 32-bit MCUs.

## Learn more about Silicon Labs MCU Offerings and Platform

The new BB5 family is now generally available from Silicon Labs and distribution partners. If you are interested in getting started on a new MCU project with Silicon Labs, please visit:

- The updated Silicon Labs <u>MCU</u> product page
- The new <u>BB5 8-bit MCU</u> family page
- Register for the special MCU Tech Talk
- Read our blog for how Silicon Labs 8-bit and 32-bit MCUs work together
- Learn more about the <u>pervasiveness of 8-bit MCUs</u>

For further information: Sam Ponedal, sam.ponedal@silabs.com

Additional assets available online: <a href="Mages(1">Moleo (1)</a>

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