Introducing: Highest-Performance Wireless SoCs and MCU

Introducing Silicon Labs' highest-performance Wireless SoCs and MCU designed to take on your most complex IoT applications that demand the very best available processing capabilities, energy efficiency, and wireless performance. Ideally suited for demanding smart home, smart city, and industrial use cases, this powerhouse family represents the most advanced general-purpose devices available.

BG26: Our Newest High-Performance, Energy-Efficient Bluetooth LE SoC

The BG26 2.4 GHz wireless SoCs provide maximum flash and RAM, ensuring the longevity of your devices. With PSA Level 3 Secure Vault protection, BG26 offers a generous GPIO count and BGA packages.

The EFR32BG26 Bluetooth SoCs are ideal for IoT wireless connectivity using Bluetooth Low Energy and Bluetooth mesh for smart home, lighting, and portable medical products. With key features like high-performance 2.4 GHz RF, low current consumption, an AI/ML hardware accelerator, and Secure Vault™, IoT device makers can create the smart, robust, and energy-efficient products that are secure from remote and local cyber-attacks. An ARM Cortex®-M33 running up to 78 MHz and up to 2048 kB of Flash and 256 kB of RAM provides resources for demanding applications while leaving room for future growth. Target applications include gateways/hubs, sensors, switches, door locks, smart plugs, LED lighting, luminaires, blood glucose meters and pulse oximeters.

Key Specs

- Supports Bluetooth 5.4, Bluetooth mesh & proprietary
- Ideal for High-end battery-powered IoT devices

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MG26: Our Most Advanced SoC for Matter

The MG26 Multiprotocol Wireless SoCs are ideal for mesh IoT wireless connectivity using Matter, OpenThread, and Zigbee protocols for smart home, lighting, and building automation products.

The EFR32MG26 Multiprotocol Wireless SoCs are the most future-proof wireless SoCs that are ideal for mesh IoT wireless connectivity using Matter, OpenThread, and Zigbee protocols for smart home, lighting, and building automation products. With key features like high-performance 2.4 GHz RF, low current consumption, an AI/ML hardware accelerator, and Secure Vault™, IoT device makers can create the smart, robust, and energy-efficient products that are secure from remote and local cyber-attacks. An ARM Cortex®-M33 running up to 78 MHz and up to 3 MB of Flash and 512 kB of RAM enables more complex applications and provides headroom for Matter over Thread. Target applications include gateways and hubs, LED lighting, switches, sensors, locks, glass break detection, predictive maintenance, wake-word detection, and more.

Key Specs

- Large Flash and RAM
- Up to 3 MB Flash and 512 kB RAM
- Highest level of IoT Security
- Secure Vault™

PG26: Our Largest Memory Footprint MCU Yet

The PG26 32-bit MCU is ideal for enabling a wide range of low-power and high-performance embedded

The EFM32PG26 32-bit microcontroller (MCU) family is a software-compatible, MCU-only version of the EFR32xG26 wireless SoC platform, namely PG26. PG26 32-bit MCUs are ideal for enabling a wide range of low-power and high-performance embedded IoT applications.

The highly efficient PG26 offers a 80 MHz ARM Cortex-M33 with LCD controller, rich analog and communication peripherals, low current consumptions, and more GPIOs to address complex systems. The PG26 is also equipped with a hardware AI/ML accelerator allowing for faster inferencing at the edge with lower power consumption.

Key Specs

- Up to 2 MB Flash and 256 kB RAM
- AI/ML Hardware Accelerator