

# EFR32FG28 Wireless SoC Family Data Sheet

The EFR32FG28 SoC is an ideal dual band Sub-GHz + 2.4 GHz BLE SoC solution for “Internet of Things” applications in smart homes, security, lighting, building automation, and metering. This dual band solution combines a high-performance Sub-GHz radio that provides long range capabilities and a 2.4 GHz BLE radio for multiprotocol applications.

The single die, multi-core solution, provides industry leading security, low power consumption with fast wakeup times, and integrated power amplifiers to enable the next level of secure connectivity for IoT devices. Large memory footprint enables flexible solutions for Dynamic Protocol support and the integration of a Matrix Vector Processor empowers AI/ML implementation for Smart End Nodes.

EFR32FG28 applications include:

- Metering
- Home and Building Automation and Security
- Industrial Automation
- Street Lighting

## KEY FEATURES

- 32-bit ARM® Cortex®-M33 core with 78 MHz maximum operating frequency
- 1024 kB of flash and up to 256 kB of RAM
- Energy-efficient radio core with low active and sleep currents
- Integrated PAs with up to 20 dBm for sub-GHz and 10 dBm for BLE transmit power
- Robust peripheral set and up to 49 GPIO
- QFN48 and QFN68 package options

