



BES2720IA

Brief Datasheet

Ultra-low Power Bluetooth Audio Platform

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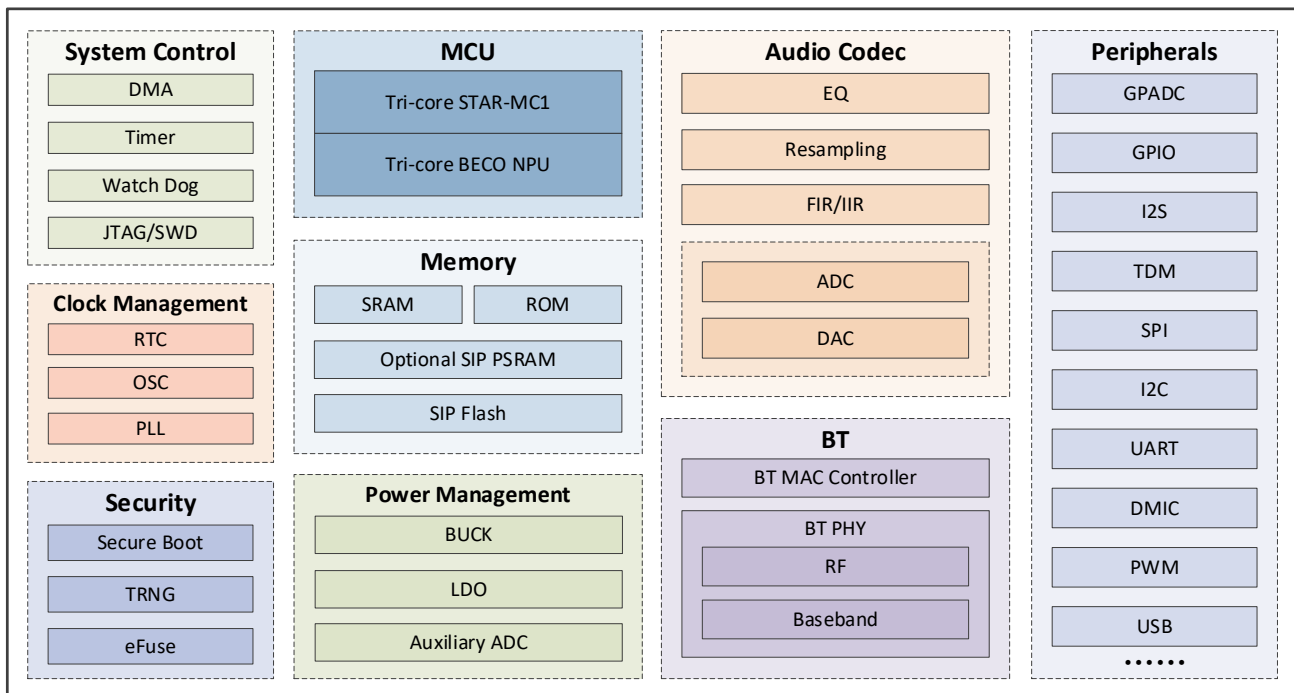
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1 General Description

The BES2720IA is ultra-low power, high performance Bluetooth audio SoC. The platform incorporates high performance CPU subsystem comprising tri-core STAR-MC1 processor with tri-core BES proprietary coprocessor (BECO) for advanced signal processing and NN workloads, RAM/ROM, flash for software features and product customization, as well as rich interfaces.

The platform incorporates dual-mode Bluetooth 6.1 subsystem supporting BT/BLE/HDT. The design minimizes external components, reduces BOM costs and offers cost-effective Bluetooth audio solution.



System Block Diagram

1.1 Applications

- Bluetooth lavalier microphones
- Other portable audio devices

1.2 Features & Specifications*

CPU Subsystem	Tri-core STAR-MC1
Memory and Storage	Shared 1 MB SRAM
	Flash and optional PSRAM in package
	boot ROM
Bluetooth Subsystem	Dual-mode BT 6.1 with Channel Sounding
	HDT support (final spec revision subject to SIG certification)
Audio & Voice Features	2x DACs
	3x ADCs
Peripheral Interfaces	GPADC/GPIO/I2S/TDM/SPI/I2C/UART/DMIC/PWM/USB.....
Package	84-pin QFN

* The content in the table is subject to change without notice.