



Brief Datasheet

Ultra-low Power Bluetooth Audio Platform for TWS, Adaptive ANC, Hearing-Aid and AI Voice Applications

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DISCLAIMER:

The BES2700ZP is an ultra-low power, high performance Bluetooth audio SoC. The platform incorporates a powerful CPU subsystem comprising an Arm Cortex-M55 processor and a Tensilica HiFi 4 DSP (optional), an audio codec, as well as a Bluetooth host subsystem comprising a STAR-MC1 processor and a sensor hub subsystem comprising a STAR-MC1 processor with a BECO NPU, a BES proprietary coprocessor for advance signal processing and NN workloads. This combination significantly reduces power consumption while providing substantial application processing capabilities.

The platform incorporates a dual-mode Bluetooth 5.4 subsystem for both Bluetooth classic and LE audio. The highly integrated solution is optimized through the use of IBRT technology, a BES patented sniffing technique that incorporates Forward Error Correction (FEC) for enhanced RF performance in TWS systems.



