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Operational Description

The EUT has a Bluetooth baseband IC for Headset devices(**SA345B1X**) that is a short – range. The modulation scheme is GFSK.

The S3F45B1X comprises an ARM7TDMI 32K-Byte SRAM, 256K-Byte Flash Memory, Bluetooth Core, enhanced voice codec, BlueRF interface and a UART port.

The feature of EUT is as follows.

CPU Core

   - 32-bit ARM7TDMI (up to 24MHz)

Bluetooth Baseband Core

   - Bluetooth version 1.1 compliant.

   - Based on EBC(Ericsson Bluetooth Core)

   - Supports voice enhancing algorithm

   - Software ECHO cancellation support.

   - 1:3 piconet support

   - Support BlueRF 1.0 interface

Internal memory

   - Program memory: 2M bit embedded flash

   - Data memory: 32Kbyte SRAM

ANTENNA

The antenna is a SMD chip antenna with maximum gain of −1.3dBi. The antenna is soldered on PCB. No external ground is required or used with this transmitter.

Central frequency: 2.4 ~ 2.484 GHz

Maximum gain: -1.3dBi

Input impedance: 50 ohms