

FCC ID: 2BCSG-BZT01

1. Product Overview

BZT001 is a compact, low-power, highly reliable Bluetooth Mesh module operating in the 2.4 GHz band, designed based on the TELINK wireless SoC TLSR8258F1KET32/TLSR8258F1KAT32. It supports SIG Mesh V1.0 standard, with a theoretical maximum of 16,383 nodes per network. The chip integrates a high-performance 32-bit MCU up to 24 MHz, with maximum TX power up to 10 dBm and minimum sleep current of 0.4 μ A.

PMN: Bluetooth MODULE

HVIN: BZT01

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IC: 34154-BZT01

1.1 Features

- Built-in low-power 32-bit CPU, can serve as application processor
- Up to 24 MHz clock frequency
- Wide operating voltage: 1.8V–3.6V (typical 3.3V)
- Peripherals: 9×PWM, 1×UART, 1×SWS
- Bluetooth RF:
 - * Bluetooth 5.4
 - * Data rate up to 2 Mbps
 - * TX power: -0.1 dBm
 - * RX sensitivity: -96 dBm @1 Mbps, -93 dBm @2 Mbps
- Hardware encryption with AES-128
- On-board PCB antenna or IPX antenna interface
- Operating temperature: -40°C to 85°C

Due to device is so small that it is impractical to label it with the FCC Identifier in a font that is four-point or larger.

Note: The FCC ID has been included in the manual and is also displayed on the device packaging.