

## 802.15.4 SOC 2483.5MHz 2000Kbps



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** MODULE

**Product Type:** RF Integrated Circuits

**Lifecycle:** Active

### General Description

ATZB-RF-233-1-C ZigBit<sup>®</sup> is an ultra-compact and low-power 2.4 GHz IEEE 802.15.4/ZigBee<sup>®</sup> OEM module with a built-in RF Front End Module (FEM) that has an integrated power amplifier and low-noise amplifier. This helps the ZigBit reach a very high link budget of up to +124 dB. Based on the innovative mixed-signal hardware platform from Microchip, this module uses the AT86RF233 2.4 GHz ISM band transceiver with the FEM on a very compact module design that provides user the ability to integrate the module into a design using any of the recommended Microchip Microcontrollers fitting the application requirements. The radio transceiver provides high data rates from 250 kb/s up to 2 Mb/s, frame handling, outstanding receiver sensitivity and high transmit output power enabling a very robust wireless communication.

The module is designed for wireless sensing, monitoring, control, and data acquisition applications, to name a few. This ZigBit module eliminates the need for costly and time-consuming RF development, and shortens time-to market for wireless applications. The module has an MS-147 RF connector that can be used as an RF test port. The built-in chip antenna is designed and tuned for the ZigBit design to enable quick integration of the ZigBit into any application. The module has an MS-147 RF connector that can be used as an RF test port. The built-in chip antenna is designed and tuned for the ZigBit design to enable quick integration of the ZigBit into any application.

### Key Features

Ultra-compact, low-power 2.4 GHz IEEE 802.15.4/ZigBee<sup>®</sup> module

Uses the AT86RF233 2.4 GHz ISM band transceiver

Onboard Chip antenna

RF test connector

### Recommended For You

#### ATWINC1500-MR210PB

Microchip Technology, Inc

MODULE

#### ATZB-900-B0

Microchip Technology, Inc

MODULE

#### ATWINC1510-MR210PB1952

Microchip Technology, Inc

MODULE

**ATSAMB11-MR510CA**

Microchip Technology, Inc  
39LMODULE

**ATWINC1510-MR210PB1961**

Microchip Technology, Inc  
MODULE

**ATWINC3400-MR210UA122**

Microchip Technology, Inc  
MODULE-36

**ATWILC1000-MR110PB**

Microchip Technology, Inc  
MODULE

**ATWINC1500-MR210UB1954**

Microchip Technology, Inc  
MODULE-28

**ATWINC3400-MR210CA122**

Microchip Technology, Inc  
MODULE

**ATWILC1000-MR110UB**

Microchip Technology, Inc  
MODULE

**ATSAMW25H18-MR510PB**

Microchip Technology, Inc  
51LMODULE

**ATWILC3000-MR110UA**

Microchip Technology, Inc  
MODULE

**ATZB-A24-U0R**

Microchip Technology, Inc  
MODULE

**ATWINC1500-MR210PB1952**

Microchip Technology, Inc  
MODULE

**ATZB-X0-256-3-0-C**

Microchip Technology, Inc  
MODULE