



PIC-BLE Development Board

**Part Number:
DT100112**

Summary

The PIC-BLE development board makes wireless applications development quick and easy.

It combines an eXtreme Low Power (XLP) PIC16LF18456 microcontroller, an ATECC608A CryptoAuthentication™ secure element and the RN4870 Bluetooth Low Energy Module.

The board USB interface provides a convenient serial port (virtual UART), the simplicity of drag and drop programming, but also full programmer and debugger capabilities supported by two award-winning Integrated Development Environments (IDEs) - Atmel Studio and Microchip MPLAB® X IDE - giving you the freedom to innovate with your environment of choice.

Connect it to your Bluetooth LE capable mobile phone or tablet using the LightBlue(tm) Explorer app (iOS and Android versions available) to activate the exclusive graphical user interface and interact with all the boards sensors and features.

Package Contents

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Product Features

- PIC16LF18456 XLP microcontroller (feat. 12-bit ADCC)
- RN4870 Bluetooth Low Energy (BLE) Module
- ATECC608A CryptoAuthentication™ Device
- MCP9844 Temperature Sensor
- BMA253 Acceleration Sensor
- SST25PF040CT 4Mb Serial Flash
- mikroBUS Header, connect 700+ sensors and actuators
- Two user LEDs
- A Push Button
- The On-board USB interface includes:
 - Board Identification in Microchip MPLAB X
 - Full IDE Programming and Debugging support
 - Virtual COM port (CDC)
 - Drag and Drop programming (MSD)
 - One Logic Analyzer channel (DGI Debug GPIO)
- USB and Battery Powered (CR2032)

