



# AVR-BLE Development Board

**Part Number: DT100111**

The AVR-BLE development board makes eXtreme Low Power (XLP) wireless applications development quick and easy.

It combines a powerful AVR ATmega3208 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.

# Product Features

- ATmega3208 AVR microcontroller
- RN4870 Bluetooth Low Energy (BLE) Module
- ATECC608A CryptoAuthentication™ Device
- BMA253 3 axis Acceleration Sensor
- SST25PF040CT 4Mb Serial Flash
- MCP9844 High Accuracy Temperature Sensor
- mikroBUS(tm) Header, connect 700+ sensors and actuators
- Two User LEDs
- User Push Button
- On-board USB Interface includes:
  - Board Identification in Atmel Studio and Microchip MPLAB X
  - Programming and Debugging
  - Virtual COM port (CDC)
  - Two logic analyzer channels (DGI Debug GPIO)
  - Drag and Drop programming (MSD)
- Powered via USB or Battery (CR2032)

