



# ATOLL – AT102X – EVB V2

## Bluetooth Low Energy



### Overview

Atoll AT1020 Evaluation Board (EVB) is a simple board for customers to evaluate Atoll's AT1020-256 BLE module. AT1020-256 is Atoll's module with Qualcomm CSR1020 Bluetooth Low Energy SoC. This EVB brings out all important pins in compact "Adafruit Feather" form factor.

### Peripherals

- Up to 11 Programmable general-purpose PIO controllers
- 10-bit ADC & 1 analogue AIO
- 5 PWM modules with 3D shutter control
- SPI interface
- I2C controller
- UART interface
- Digital microphone, I2S port for PCM I/O & G.722 Codec

### Other Features

- **Power Reset Button**
  - SW2: Used for hardware power reset.
- **User Push Button**
  - SW1 → PIO13 → J29.1 & J29.2 Should ON
- **RGB LED**
  - RED → PIO3 → J2.3&J2.4 Should ON
  - GREEN → PIO14 → J2.5&J2.6 Should ON
  - BLUE → PIO10 → J2.1&J2.2 Should ON
- **Serial UART Debug.**
  - On board CP2102 chip for the UART to

### Further Information

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### Target Applications

Bluetooth Low Energy Technology:

- HID: keyboards, mice, touchpad, advanced remote controls with voice activation
- Sports and fitness sensors: heart rate, runner/cycle speed and cadence
- Health sensors: blood pressure, thermometer and glucose meters
- Mobile accessories: watches, proximity tags, alert tags, environmental sensors and camera controls
- Smart home: heating, switching and lighting control
- Wire replacement applications

Qualcomm® Mesh Connectivity: Internet of Things control

