

## qBoard-B WiFi/BT/BLE ESP32 AMC IOT Controller

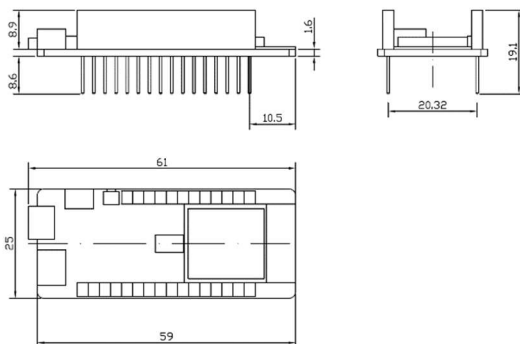
The newest qBoard-B WiFi / BT / BLE ESP32 Adafruit Feather Compatible IOT Controller has come to help hobbyists, makers and all DIYers create low power cloud connected WiFi enabled applications. It is built compatible with popular Adafruit Feather shields, allows easily create different IOT applications.



### FEATURES

- **Wireless Included:** Feature-rich ESP32 SOC with integrated Wi-Fi and Bluetooth connectivity;
- **Reliable and Optimized Power Management:** Synchronous stepdown DC-DC TPS62827 converter with a very low quiescent current (only 4  $\mu$ A);
- **Built-in Battery Management:** Highly integrated Li-Ion/Li-Pol BQ24040 Linear Charger with NTC Thermistor Integrated;
- **Sensor Add-On capability:** Built in qJam connector gives opportunity to bring to the system any qJam family device;
- **Programming ready:** Integrated USB FT231XQ-R bridge with ESP programmer.
- **Popular IOT board compatibility:** pin-to-pin compatible with popular Adafruit Feather IOT boards.

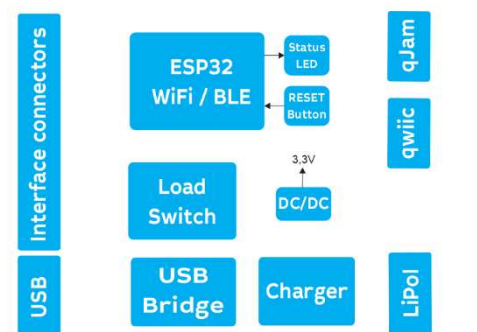
### MECHANICAL



Note : All dimensions are preliminary

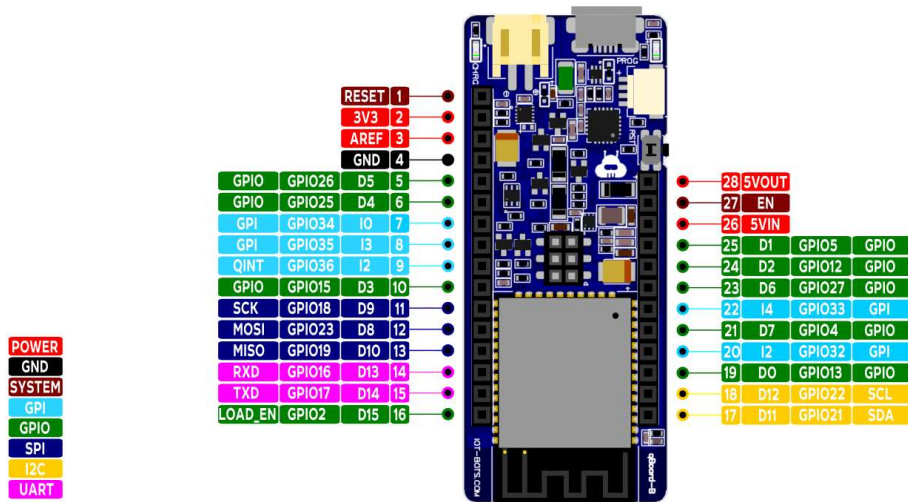
### BLOCK DIAGRAMM

#### qBoard WiFi/BLE ESP32 IOT Board





## PINOUT



## ELECTRICAL

Parameter	Min	Typ.	Max
Power Supply, VDC	3.6	4.2	5.5
Digital I/O Pins, VDC	0	3.3	3.6
RTC Pin, VDC	0	3.0	3.0
VUSB Pin, VDC	3.0	5.0	5.25
USB Data Pins, VDC	Compliant with USB 2.0 standard specification		
Networks	WiFi / BT / BLE		
Operating Temperature	-40 °C to +85 °C		

## ASSEMBLING



## FCC ID

2AC7Z-ESPWROOM32D

## IC ID

21098-ESPWROOM32D

## PRODUCT PAGE

[qBoard-B ESP32 AMC IOT Controller page](#)

## ORDERING INFO

IBT-QCE-AFC-B

## CONTACT INFO

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