

qBoard-A WiFi/BT/BLE ESP32 AMC IOT Controller

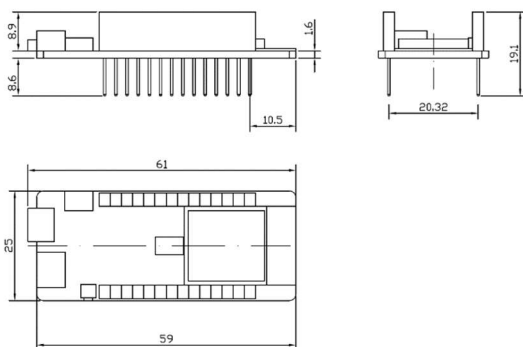
The newest qBoard-A WiFi / BT / BLE ESP32 Arduino MKR Compatible IOT Controller has come to help hobbyists, makers and all DIYers create low power cloud connected WiFi enabled applications. It is built compatible with popular Arduino MKR shields, allows easily create different IOT applications.



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 μ 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 Arduino MKR IOT boards.

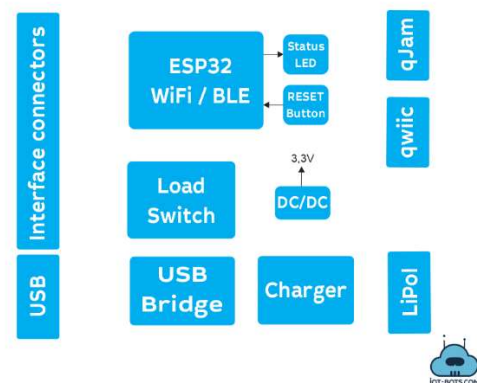
MECHANICAL



Note : All dimensions are preliminary

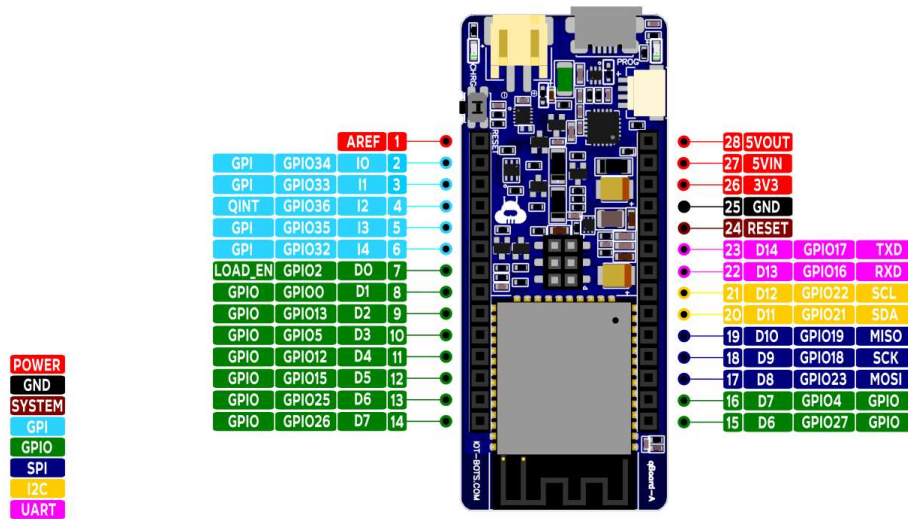
BLOCK DIAGRAMM

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-A ESP32 AMC IOT Controller page](#)

ORDERING INFO

IBT-QCE-AMC-B

CONTACT INFO

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