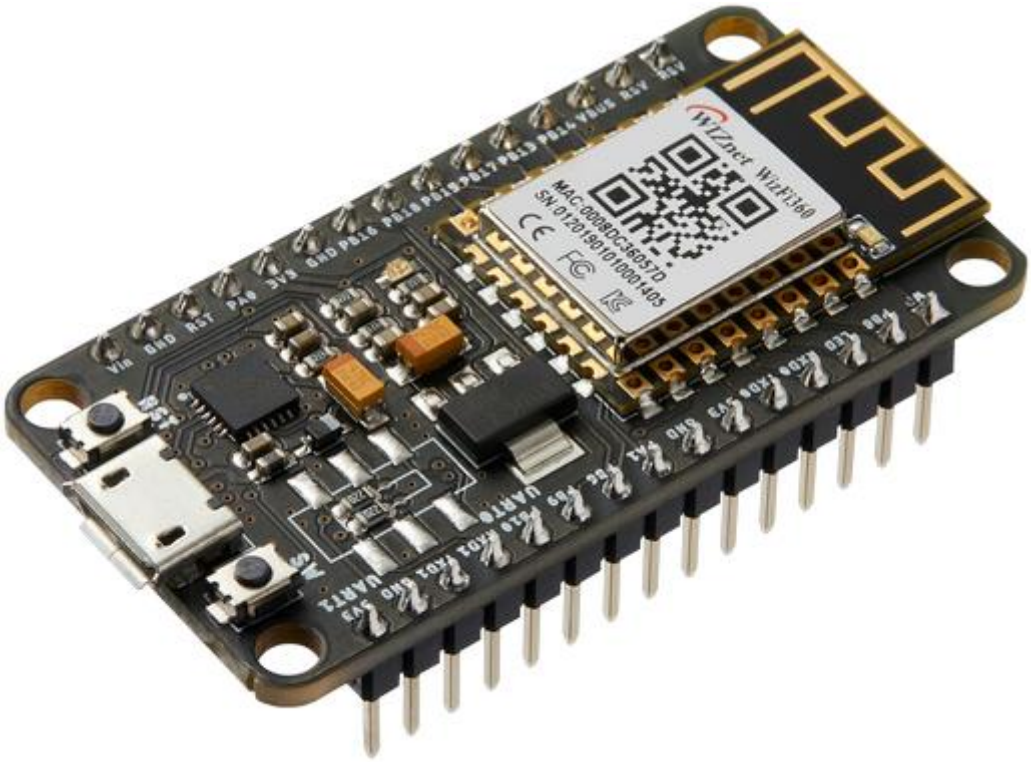
WizFi360-EVB-Mini Datasheet

(Version 1.00)



http://www.wiznet.io

Document Revision History

Date	Revision	Changes
2019-10-18	V1.0	Official Release

Table of Contents

1. Overview

This document describes WizFi360-EVB-Mini. WizFi360-EVB-Mini is a compact development board for experiment, test and verification of WizFi360. WizFi360-EVB-Mini is the same form factor as the NodeMCU V2.

WizFi360 is a low cost and low-power consumption industrial-grade Wi-Fi module. It is compatible with IEEE802.11 b/g/n standard and supports Soft-AP, Station and Soft-AP + Station modes. The serial port baud rate can be up to 2Mbps, which can meet the requirement of various applications.

2. Features

2.1. WizFi360

- Wi-Fi 2.4GHz 802.11 b/g/n
- Support Station / Soft-AP / Soft-AP + Station operation modes
- Support "Data pass-through" and "AT command data transfer" mode
- Support serial AT command configuration
- Support TCP Server / TCP Client / UDP operating mode
- Support configuration of operating channel 0 ~ 13
- Support auto 20MHz / 40MHz bandwidth
- Support WPA_PSK / WPA2_PSK encryption
- Serial port baud rate up from 600bps to 2Mbps with 16 common values
- Support up to 5 TCP / UDP links
- Obtaining IP address automatically from the DHCP server (Station mode)
- DHCP service for Wireless LAN clients (AP mode)
- Support DNS for communication with servers by domain name
- Support "Keep-Alive" to monitor TCP connection
- Support "Ping" for monitoring network status
- Built-in SNTP client for receiving the network time
- Support built-in unique MAC address and user configurable

- Support firmware upgrade by UART Download / OTA (via WLAN)
- Industrial grade (operating temperature range: -40 ° C ~ 85 ° C)
- CE, FCC, KC certification

2.2. ETC

- Built-in UART to USB chip
  - CP2104-GM
  - Micro USB B Type Connector

3. Electrical Specifications

Parameters	Min	Typ	Max	Unit
WizFi360 Operation Voltage	3	3.3	3.6	V
Send IEEE802.11b, CCK 11Mbps, POUT = +19 dBm	-	230	290	mA
Send IEEE802.11g, OFDM 54Mbps, POUT = +13.5 dBm	-	210	-	mA
Send IEEE802.11n, OFDM MCS7, POUT = +12 dBm	-	210	-	mA
Receive IEEE802.11 b/g/n	-	100	110	mA
Standby Mode	-	135	-	mA
Modem Sleep Mode	-	20	-	mA
Light Sleep Mode	-	13	-	mA

4. Block Diagram

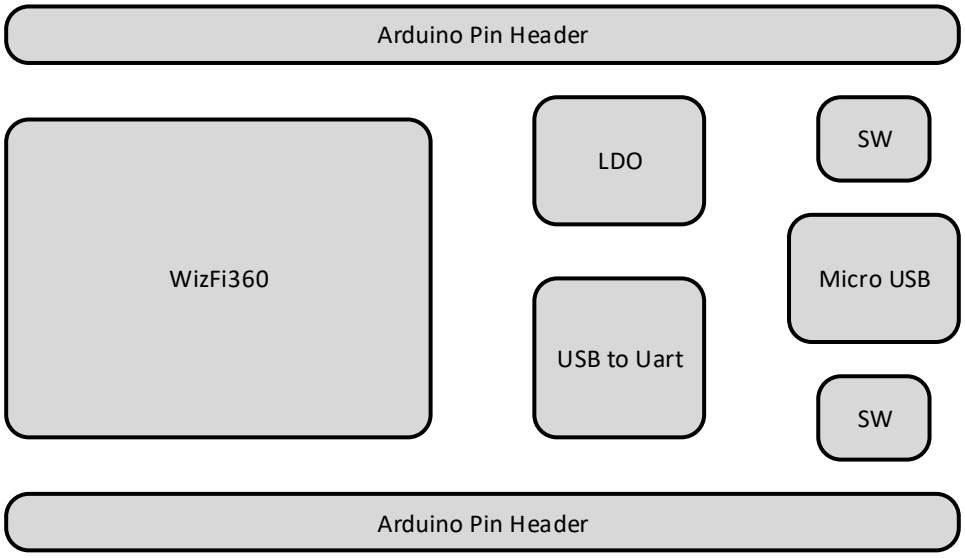


Figure 1. WizFi360-EVB Block Diagram

5. Callout

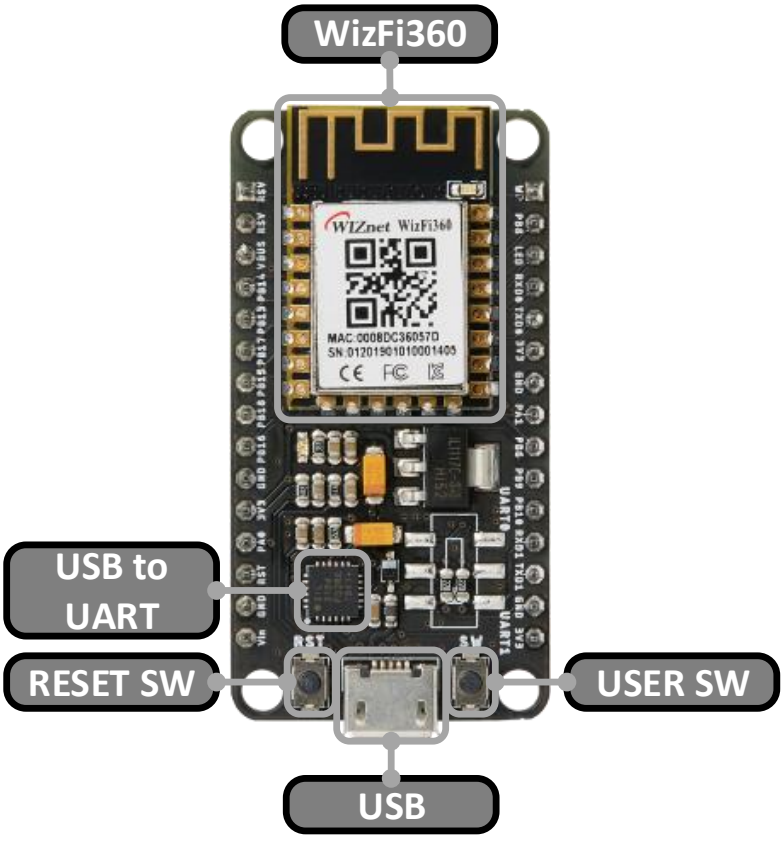


Figure 2. Callout

6. Pinout

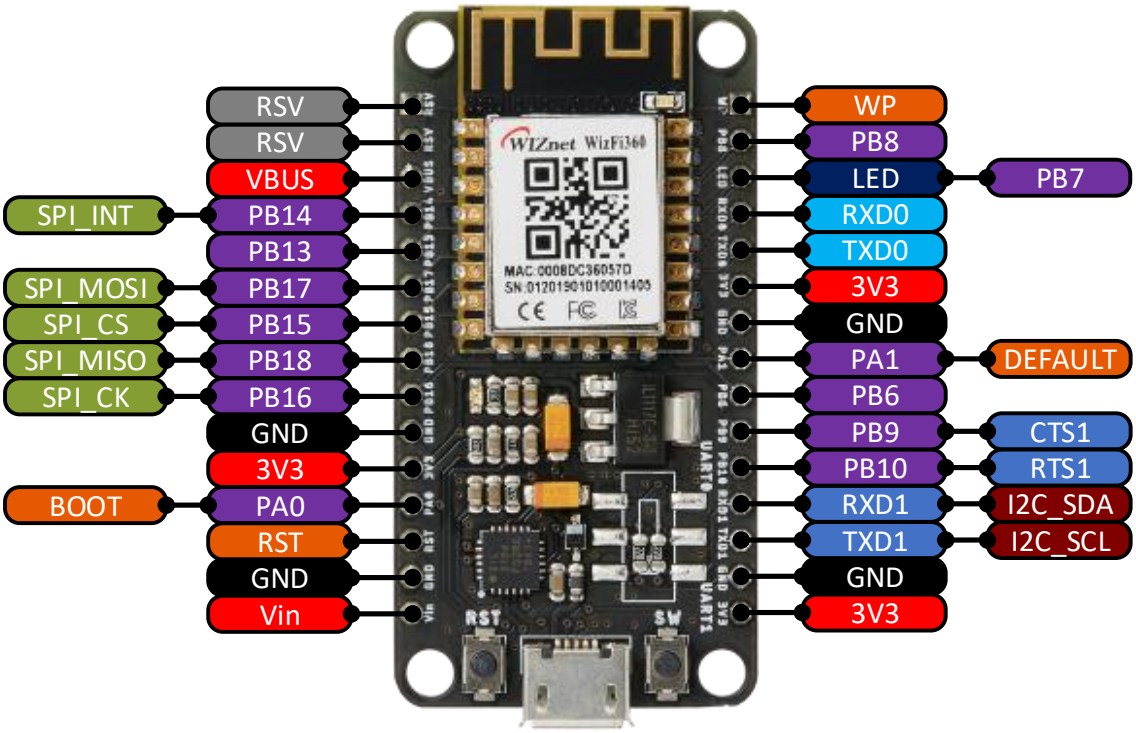


Figure 3. Pinout

7. Schematic & Partlist

https://github.com/Wiznet/Hardware-Files-of-WIZnet/tree/master/07_WizFi_Module/WizFi360-EVB-Mini

8. Dimension

The dimension of WizFi360-EVB-mini is the same as NodeMCU V2

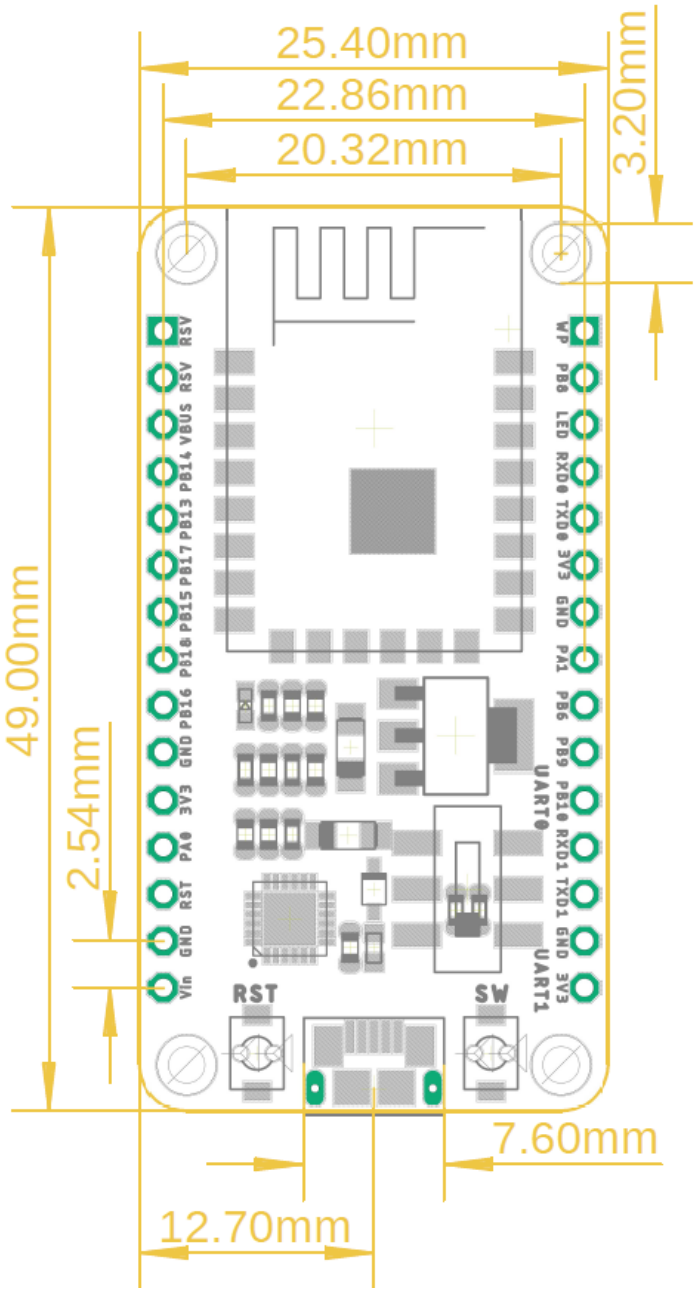


Figure 4. Dimension

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