

User Guide

Product Description:

The WiFi Module(WizFi270) is a quick, easy, and cost-effective way for device and appliance manufacturers to add WiFi capabilities to their products. WizFi270 provides UART and SPI interfaces which enable connections to any embedded design utilizing an 8/16/32-bit microcontroller via simple AT commands. WizFi270 is an ideal solution for organizations with limited or no WiFi or RF expertise, as it not only reduces RF design time but also removes the burden of testing and certification; allowing customers to focus on their core application, product, or expertise. WizFi270 is compliant with 802.11b/g/n.

Features:

- Single band 2.4GHz IEEE 802.11b/g/n FCC approved antenna:
integrated on PCB: 4 dBi
- Integrated RF power amplifier
- MCU Core: 200MHz Cortex-M3
- Supports wireless data rates up to 11b : 1, 2, 5.5, 11 (Mbps)
11g: 6, 9, 12, 18, 24, 36, 48, 54 (Mbps)
11n: up to 72.2(Mbps)
- 1MB Flash Memory, 512KB SRAM, 1MB Serial Flash
- Supports per packet Rx Antenna diversity
- Easy integration into mobile and handheld devices flexible system configuration.
- Device Package (SMD) :15.5mm x30.5mm (uFL), 15.5mm x 37.8mm (PCB antenna)
- Serial Interface : UART, SPI
- Configuration Methods: Webpage, Serial (AT command)
- Operating Mode: Station(Client), Soft AP
- Wi-Fi Security (WEP, WPA/WPA2PSK), SSL
- OTA(Over The Air F/W Upgrading)
- Industrial temperature range: -40 °C to 85 °C
- Modulation: OFDM
- FCC/CE RoHS compliant
- Lead Free design supporting Green design requirements

- RoHS Compliance.
- Build-in PCB Antenna
- DC 3.3V operating voltage
- Typical 9.46dBm(max.) output power

FCC Statement:

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This WiFi Module complies with FCC radio-frequency exposure guidelines set forth for an uncontrolled environment. A distance of 20 cm shall be maintained between the antenna and users, and the transmitter may not be co-located with any other transmitter or antenna.

This device is intended only for OEM integrators under the following conditions:

- (1) According to FCC Part 15 Subpart C Section 15.212, the radio elements of the modular transmitter must have their own shielding. This module is granted as a Single Modular Approval.
- (2) This device has been designed to operate with a PCB antenna having a maximum gain of 4dBi(max.). Only this type of antenna may be used.
- (3) Integration is typically strictly restricted to Grantee himself or dedicated OEM integrators under control of the Grantee.

As long as 3 conditions above are met, further transmitter test will not be required.

However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

USER MANUAL OF THE END PRODUCT:

In the user manual of the end product, the end user has to be informed that the equipment complies with FCC radio-frequency exposure guidelines set forth for an uncontrolled environment.

The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

If the size of the end product is smaller than 8x10cm, then additional FCC part 15.19 statement is required to be available in the user manual: This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following "Contains TX FCC ID: 2AHBB-WIZFI270 ". If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.