ARC wireless solutions™

Quick Install Guide

ARCFlex™ 802.11abgn Module

Operation

The ARCFlex™ 802.11abgn Module is a high power wireless module board designed to be integrated into indoor and outdoor wireless systems. Please follow the following instruction while using this module. This module is meant to be operated (and used) by system integrators who are aware of the regulatory requirements in the area it is being used. The following instructions need to be followed while using the module:

- Before inserting the module in a host board, please power down the host board first.
- The antenna port (u.fl connector) should be connected to the appropriate load or antenna before powering up the host board. Lack of Antenna (or load) while the module is powered up may cause damage to the card.
- Please make sure any person handling the card with bare hands follows proper ESD precautions. Improper handling could cause ESD damage.
- The card should not be tampered or modified in any way. Tampering or modification could cause the module to fail standard tests.

Note: This card is designed to be installed, operated, and used by system integrators and/or professional installers. As such, the product is required to comply with all applicable FCC equipment authorization regulations, requirements and equipment functions not associated with the transmitter module. The OEM is responsible for demonstration of compliance to regulations for non-transmitter components within the host product to requirements for unintentional radiators (Part 15B), such as digital devices and to additional authorization requirements for the non-transmitter functions of the transmitter module (i.e., Verification, or Declaration of Conformity) (e.g., Bluetooth and WiFi transmitter modules).

FCC Information

Electronic Emission Notices
This device complies with CFR 47 Part 15 of the FCC rules.

Operation is subject to the following two conditions:
- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

FCC Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to CFR47 Part 15. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment, not withstanding use in commercial,
business and industrial environment. 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. 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 where the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

To comply with FCC RF exposure requirements in section 1.1307, a minimum separation distance of 5.4 inches is required between the antenna and all occupational persons, and a minimum separation distance of 11.8 inches is required between the antenna and all public persons.

Antenna Installation

WARNING: It is installer's responsibility to ensure that when using the authorized antennas in the United States (or where FCC rules apply), only those antennas certified with the product are used. The use of any antenna other than those certified with the product is expressly forbidden in accordance to FCC rules CFR47 part 15.204. The installer should configure the output power level of antennas, according to country regulations and per antenna type. Professional installation is required of equipment with connectors to ensure compliance with health and safety issues.

Antenna Compliance

The ARCFlex™ 802.11abgn Module has been tested and certified with the following antennas:

- 18dBi, 2.4GHz dual polarity panel antenna
- 24dBi, 5GHz dual polarity panel antenna

Any antenna of same make and lower gain than those listed above may be used in compliance with certification.

FCC Caution

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Labeling Compliance

The exterior of the final device must be labeled with "Contains FCC ID: Z2B-AFM2".