Thundercomm XDV1-0003 RF Board Unit Instruction Manual

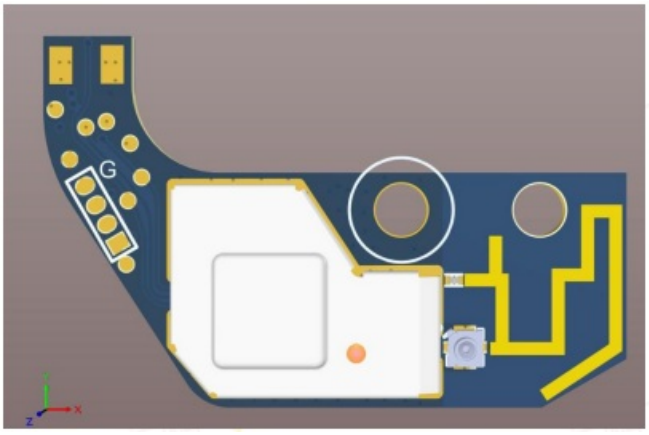
Contents

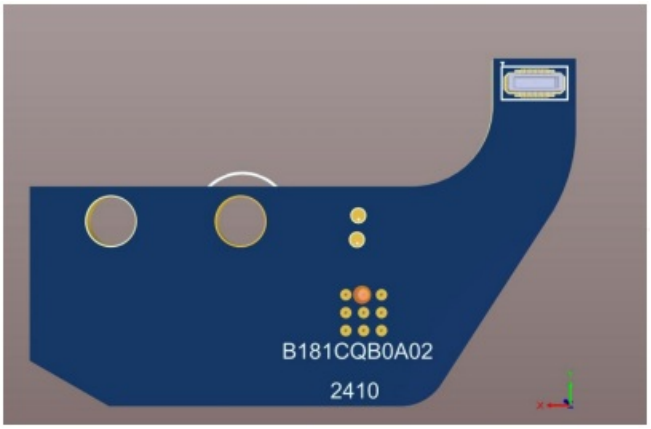
RF module board Instructions for use

1 Packaging content

1. 1.nRF module board *1
2. Bubble bag + 1

2 Product appearance





Product specification

product name	RF Board Unit
Product model specification	XDV1-0003
product size	34mm*22mm*3mm
dimensional tolerance	±0.2mm
Product weight	3g
product process	1mm, FR 4, OSP, over hole cover oil
Electrostatic grade	NA
levels of protection	NA
working temperature	-25~65 degrees C
Storage temperature	-25~65 degrees C
Working humidity	35%-95%
Store humidity	35%-95%
working voltage	1.8V
Power consumption	50 mW (including master and RF parts)
Wireless frequency	2.4GHz~2.480GHz

Direction for use

1. nRF module board Face up, the QFN connector is facing the QFN connector base at the glasses motherboard, press vertically.
2. Take 2 screws and secure them with the main board.

Federal Communications Commission (FCC) Statement

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.
Note: 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.

Warning: Changes or modifications made to this device not expressly approved by Edan Instruments, Inc. may

void the FCC authorization to operate this device.
Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF exposure statement:
The transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment.

Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual v01

2.2 List of applicable FCC rules
CFR 47 FCC PART 15 SUBPART C has been investigated. It is applicable to the modular transmitter.

2.3 Specific operational use conditions
This module is stand-alone modular. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system.

2.4 Limited module procedures
Not applicable.

2.5 Trace antenna designs
Not applicable

2.6 RF exposure considerations
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

2.7 Antennas
This radio transmitter has been approved by Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device if without further certify such as C2PC.

Type	XDV1-0003
Antenna type	PCB antenna
Frequency Range	2.4GHz – 2.5 GHz
Antenna Gain	1.61 dBi

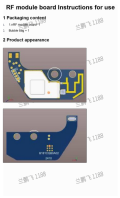
2.8 Label and compliance information
If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: 2AOHH-XDV1-0003" Or "Contains FCC ID:2AOHH-XDV1-0003".

2.9 Information on test modes and additional testing requirements
Host manufacturer which install this modular with limit modular approval should perform the test of radiated emission and spurious emission according to FCC part 15C:15.247 and 15.209 requirement, only if the test result comply with the requirement, then the host can be sold legally.

2.10 Additional testing, Part 15 Subpart B disclaimer

Host manufacturer is responsible for compliance of the host system with module installed with all other applicable requirements for the system such as Part 15 B.

Documents / Resources

	Thundercomm XDV1-0003 RF Board Unit [pdf] Instruction Manual XDV1-0003 RF Board Unit, XDV1-0003, RF Board Unit, Board Unit, Unit

References

- User Manual