Product name：WLAN Module

Model number：W0DR1500F2

Brand name: Cal-Comp

Manufacturer: Cal-Comp Electronics & Communications Co., Ltd.

1. General Description

This document is to specify the product requirements for 802.11 b/g/n SDIO Module. This Module is based on Realtek RTL8189FTV-VB-CG chipset that complied with IEEE 802.11g, IEEE 802.11b,IEEE 802.11n standard from 2.4G-2.5GHz, and it can be used to provide up to 54Mbps for 802.11g,11Mbps for 802.11b and 150Mbps for 802.11n to connect your wireless LAN.

With seamless roaming, fully interoperability and advanced security with WEP standard,802.11b/g/n Module offers absolute interoperability with different vendors 802.11 b, 802.11 g, 802.11n

Access Points through the wireless LAN.

This module has been tested and found to comply with the following requirements for Modular Approval.

● Part 15.247 - Operation within the bands 2400-2483.5MHz.

2. Test Modes

This device uses various tests mode programs for test set up which operate separate from production firmware. Host integrators should contact the grantee for assistance with test modes needed for module/host compliance test requirements.

3. Antenna information

Antenna Type	Antenna Part No.	Freq. (MHz)
PCB	W0DR1500F2	2.4G

4. Features

●Compatible with IEEE 802.11b stand

●Compatible with IEEE 802.11b standard to provide wireless 11Mbps data rate

● Compatible with IEEE 802.11g standard to provide wireless 54Mbps data rate

● Compatible with IEEE 802.11n standard to provide wireless 150Mbps data rate

● Operation at 2.4G-2.5GHz frequency band to meet worldwide regulations

● Supports WEP, WPA, WPA2, TKIP, AES enhanced security

● Drivers support Windows, Linux, Android

● SDIO interface

● RoHS compliant

5. Electrical and Thermal Characteristics

● Temperature Limit Ratings

Parameter	Minimum	Maximum
Storage Temperature	-40℃	+80℃
Operating ambient Temperature	0℃	+70℃
Junction Temperature	0℃	+125℃

● General Section

Detailed	Description
Antenna Type	PCB ANT
Operating Voltage	3.3V±10%
Form Factor and Interface	SDIO2.0

● Software

Driver	Windows,Linux,Android
Security	WEP,WPA,WPA2,TKIP,AES

● Recommended operation conditions for module

Symbol	Rating	Min	Typ	Max	units
VDD33/VDDIO	3.3V	3	3.3	3.6	V

6. Warning

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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.

Federal Communications Commission (FCC) Statement

15.105(b)

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.
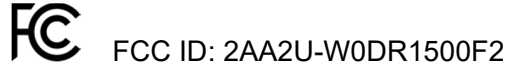
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You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

1.   This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.   This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

7. Label

FC   FCC ID: 2AA2U-W0DR1500F2

8. Required End Product Labeling

Any device incorporating this module must include an external, visible, permanent marking or label which states: "Contains FCC ID: 2AA2U-W0DR1500F2"