



*CWFB211-XXX*

*Specification*

*Revision 01*

*2012/09/12*

*Prepared By: Jeff Hsieh*

## Revision History

Revision	Date	Notes	Owner
01	201209/12	Initial Release	Jeff Hsieh

## 1. Wireless Spec.

WLAN: 2X2 MIMO

Wi-Fi	Frequency Range (MHz)	Channels	Peak Rated Power	Modulation Technology
802.11b	2412 – 2462(DTS)	11	19.52dBm	DSSS
802.11g	2412 – 2462(DTS)	11	23.87dBm	DSSS, OFDM
802.11n	HT20 2412 – 2462(DTS)	11	23.77dBm	OFDM
	HT40 2422 – 2452(DTS)	7	23.71dBm	
802.11a	5180 – 5240(NII)	4	9.19dBm	OFDM
	5745 – 5825(DTS)	5	23.88dBm	
802.11n	HT20 5180 – 5240(NII)	4	8.65dBm	OFDM
	HT20 5745 – 5825(DTS)	5	24.81dBm	
	HT40 5190 – 5230(NII)	2	10.93dBm	
	HT40 5755 – 5795(DTS)	2	24.60dBm	
Modulation type		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		Upto 300Mbps		

Antenna Designation:

	<b>Manufacturer</b>	<b>Model No.</b>	<b>Connector Type</b>	<b>Type</b>	<b>Gain (2.4GHz)</b>	<b>Gain (5GHz)</b>
Ant 1	Airwave Technologies INC.	EDA-8709-25GR2-A4-RM	Revise SMA, unique	Dipole Ant	2 dBi	2 dBi
Ant 2	ARISTRITTLE	RFA-25-C2S1-70-90	unique	Dipole Ant	2 dBi	2 dBi
Ant 3	Tranwo technology corp.	SD001-201003-A101	Revise SMA, unique	Dipole Ant	2dBi	2 dBi
Ant 3-1	Tranwo technology corp.	RFA-05-2-L14M3-B70-1	Revise SMA, unique	Dipole Ant	2dBi	2 dBi
Ant 3-2	Tranwo technology corp.	202-000442-00	unique	Patch Ant	0 dBi	-1 dBi
Ant 3-3	Tranwo technology corp.	202-000441-00	unique	Patch Ant	0.5 dBi	-0.5 dBi
Ant 4	UDM Group Technology Co., Ltd	26-52-01800G	unique	PCB Ant (Green)	2.5 dBi	4 dBi
Ant 5	Unictron Technologies Corporation	H2P566WKBA0100	unique	PCB Ant (Blue)	2.3 dBi	4dBi

This antenna list table could be used for CWFB211-XXX..

The max gain of 2.4G: 2.5dBi.

The max gain of 5G: 4dBi.

## **Federal Communications Commission (FCC) Statement**

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.

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.

## **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 of the device.

## **FCC RF Radiation Exposure Statement:**

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter and this equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

When using IEEE 802.11a wireless LAN, this product is restricted to indoor use, due to its operation in the 5.15 to 5.25GHz frequency range. The FCC requires this product to be used indoors for the frequency range of 5.15 to 5.25GHz to reduce the potential for harmful interference to co channel mobile satellite systems.

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove. This RF module in the user's manual of the end product which integrates this module. The user's manual for OEM Integrators must include the following information in a prominent location

## **End Product Labeling:**

The final end product must be labeled in a visible area with the following:

“Contains FCC ID: **O7N-CWFB211-XXX**”.