

AW-CU544

IEEE 802.11 b/g/n MAC/baseband/radio and Bluetooth 5.2 IoT Module

Certification Guide

Ver. A

Revision History

Document release	Date	Modification	Initials	Approved
A	2022/11/03	Initial Version	Hanna Chiu	Patrick Lin

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1. Certificate list of AW-CU544

AW-CU544-E and AW-CU544-P are following the reference design of Infineon IFX56811 and IFX56810, using Infineon PSoC64 + CYW43439. It has CE, FCC, and IC certificates. Certificate IDs are listed as below.

Infineon Model Name	AzureWave Model Name	Antenna
IFX56811	AW-CU544-E	External Antenna
IFX56810	AW-CU544-P	Printed Antenna

- **FCC ID: WAP-CMM1**

The final end product must be labeled in a visible area with the following: Contains FCC ID: WAP-CMM1

- **IC: 6100A-CM276NF**

The final end product must be labeled in a visible area with the following: Contains IC: 7922A-CMM1

2. Antenna Filing Policy

AW-CU544 was certified by using the below antennas. If you have preferred antenna to be used with AW-CU544, antenna filing is necessary.

Ant. No.	Brand	Model	Ant. Gain (dBi) including cable loss	Ant. Type	Connector
1	MAG. Layers	MSA-4008-25GC1-A1	2.98	PIFA	I-PEX
2	AzureWave	AW-CU544	3.12	PCB	N/A

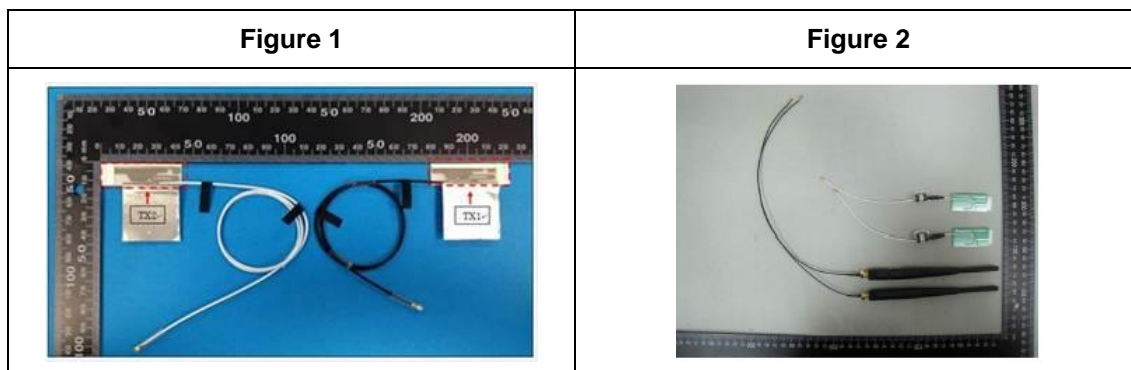
Before applying antenna filing, please notice that below policies

1. Antenna filing could be applied for the countries as below:

FCC, CE, and IC

2. The below information must be included in the data sheet of new antenna

- Antenna Vendor and Part Number
- Antenna peak gain table
- Antenna pattern for each band (gains listed on plots must correctly match spec sheet summary table of gains)
- Antenna photo (including antenna length/width with L type scale) (Figure 1 or Figure 2)
- Antenna drawing (including length/width)
- Antenna type
- Antenna cable length
- Connector type
- IPEX Cable drawing if the antenna type is dipole



3. Reminder about Global Antenna Rules

- Please ensure that new antenna is PIFA or PCB type
- Please ensure that the peak gain of new antenna is lower than AzureWave limits as above antenna table.
- If new antenna has higher antenna gain value than above, it will trigger FCC permissive change testing or re-test in the other countries.
- If new antenna has different type from current antenna list, re-testing is necessary and charge might have to be taken by requestor