AzureWave Technologies, Inc.

AW-AM510

Certification Guide

Ver. A

Revision History

Document release	Date	Modification	Initials	Approved
A	2024/05/17	Initial Version	Josh Lin	Patrick Lin

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1. Certificate list of AW-AM510

AW-AM510 is using NXP IW416, has CE, FCC, IC, Japan certificates. Certificate ID are listed as below.

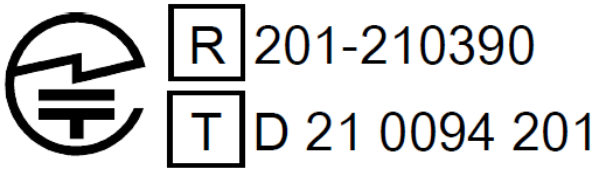
- **FCC ID: TLZ-AM510**

  The final end product must be labeled in a visible area with the following: Contains “FCC ID: TLZ-AM510”

- **IC: 6100A-AM510**

  The final end product must be labeled in a visible area with the following: Contains “IC: 6100A-AM510”

- **Japan:**
  - TELEC: 201-210390
  - JATE: D 21 0094 201



2. Antenna Filing Policy

AW-AM510 is certified with many antennas. The antenna list could be found in Appendix 1. If you have preferred antenna to be used with AW-AM510, antenna filing is necessary.

Before applying antenna filing, please notice that below policies

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

   FCC, CE, IC, and Japan.

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

   - Antenna Vendor and Part Number
   - Antenna peak gain summary 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 mechanical drawing showing dimensions (including length/wide)
   - Antenna type
   - Antenna cable length
   - Connector type
   - IPEX Cable drawing if the antenna type is dipole
   - If it is a report from an antenna factory, basic information, contact information, and address are required
   - If the ODM/OEM and manufacturer's own test report needs to provide testers, instrument calibration list, test date, test software, test photos, and describe how to measure

Figure 1	Figure 2
	

3. Reminder about Global Antenna Rules
   - Please ensure that new antenna is PCB on board, PIFA, Dipole or Monopole type.
   - Please ensure that the peak gain of new antenna is lower than AzureWave limits as Appendix 1.
   - If new antenna has higher antenna gain value than Appendix 1, 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

Appendix 1

Antennas listed on FCC, CE, IC and Japan reports

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Molex	1461531050	Dipole	I-PEX	Note 1
2	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1
3	1	LYNwave	5-PP005421	PIFA	I-PEX	Note 1

Note1:

Ant.	Antenna Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	3.20	4.25	3.20
2	2.98	5.16	2.98
3	2.90	4.30	2.90