AzureWave Technologies, Inc.

AW-CM358

IEEE 802.11a/b/g/n/ac WLAN with Bluetooth 5.2 Combo LGA Module

Certification Guide

Ver. B

Revision History

Document release	Date	Modification	Initials	Approved
A	2020/05/05	Initial Version	Josh Lin	Patrick Lin
B	2022/02/08	Add more country certificates	Zoe Huang	Patrick Lin

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1. Certificate list of AW-CM358

AW-CM358 has CE, USA (FCC), Canada (ISED), Japan (TELEC/JATE) and China (SRRC) certificates, certificate ID are listed as below.

- **FCC ID: TLZ-CM358SM**

  The final end product must be labeled in a visible area with the following: “Contains FCC ID: TLZ-CM358SM”

- **ISED ID: 6100A-CM358SM**

  The final end product must be labeled in a visible area with the following: Contains “IC: 6100A-CM358SM”

- **Japan:**
  - TELEC: 020-210069
  - JATE: D210035020

- **CMIIT ID: 2021AJ16816(M)**

Most importantly, AW-CM358 is certified on the host Board. If customer wants to leverage module certificate, it must follows the RF design of host board, including RF trace (line space / width / length), Schematics, BOM and its component placement. For details, please refer to 12x12 Stamp Module Certification Leverage.

If a host device uses a different antenna design pattern and/or with different peak gain, or uses a PCB antenna, it must apply class II permissive changes. The Radiated emission and band edge test must be performed again. Customer shall check with the selected test lab for details

2. Antenna Filing Policy

AW-CM358 was certified by using the below antenna. If you have preferred antenna to be used with AW-CM358, antenna filing is necessary.

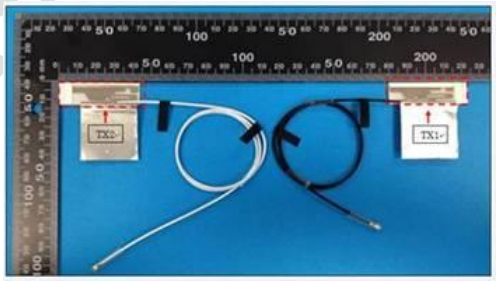
Ant. No.	Brand	Model	Ant. Gain (dBi) including cable loss	Frequency range	Ant. Type	Cable Length (cm)
1	MAG. Layers	MSA-4008-25GC1-A2	2.98	2400 ~ 2500	PIFA	15
			5.16	5150 ~ 5850	PIFA	15

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 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

Figure 1	Figure 2
	

3. Reminder about Global Antenna Rules

- Please ensure that new antenna is PIFA 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