

# **AW-NM191NF**

## **IEEE 802.11b/g/n Wireless LAN Module (M.2 1216)**

### **Certification Guide**

**Ver. A**

## Revision History

Document release	Date	Modification	Initials	Approved
A	2020/04/06	Initial Version	Josh Lin	Patrick Lin

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## 1. Certificate list of AW-NM191NF

AW-NM191NF has CE, FCC and Japan certificates, certificate ID are listed as below.

- **FCC ID: TLZ-NM191NF**

The final end product must be labeled in a visible area with the following: “Contains FCC ID: TLZ-NM191NF”

- **Japan: 020-190276 for MIC Grant ID and D190123020 for JATE ID**



R 020-190276

T D190123020

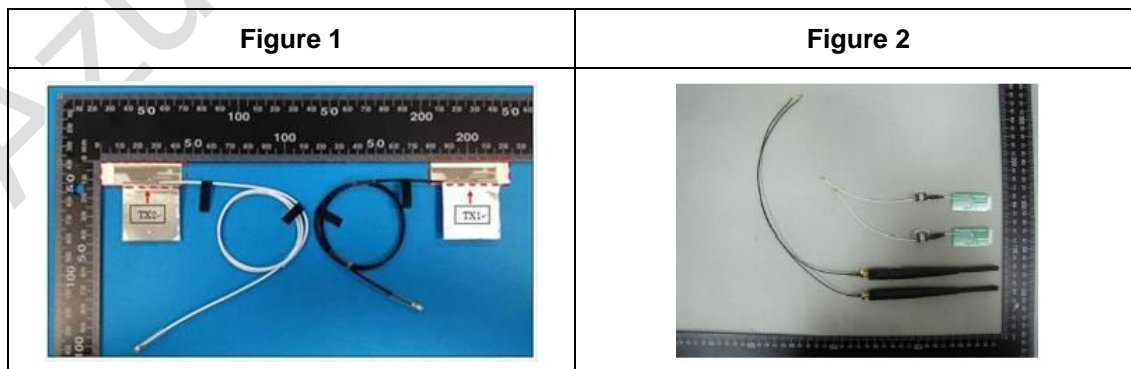
## 2. Antenna Filing Policy

AW-NM191NF was certified by using the below antenna. If you have preferred antenna to be used with AW-NM191NF, antenna filing is necessary.

Ant. No.	Transmitter Circuit	Brand	Model	Ant. Gain (dBi) including cable loss	Frequency range	Ant. Type	Cable Length (cm)
1	Chain (0)	MAG. Layers	MSA-4008-25GC1-A2	2.98	2400 ~ 2500	PIFA	15
2	Chain (1)	MAG. Layers	MSA-4008-25GC1-A2	2.98	2400 ~ 2500	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, NCC, Japan, Korea and C-tick.
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 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

4. Schedule of antenna filing for 2020 is listed as below. If there is extra requirement in addition to the regular schedule, the charge might have to be taken by requestor. For later schedule of antenna filing, please contact with AzureWave Sales or FAE.

Submit to AzureWave	Cutoff date	Start date	Completed date
<b>2020/01/02</b>	2020/01/08	2020/01/22	2020/02/06
<b>2020/03/02</b>	2020/03/11	2020/03/25	2020/04/29
<b>2020/05/04</b>	2020/05/13	2020/05/27	2020/06/24
<b>2020/07/06</b>	2020/07/15	2020/07/29	2020/08/26
<b>2020/09/07</b>	2020/09/16	2020/09/30	2020/10/28
<b>2020/10/26</b>	2020/11/04	2020/11/18	2020/12/16