

AW-CU300 / AW-CU300 V2

IEEE 802.11b/g/n WLAN Microcontroller Module

Certification Guide

Ver. A

Revision History

Document release	Date	Modification	Initials	Approved
A	2020/04/28	Initial Version	Apple Chang	Patrick Lin

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1. Certificate list of AW-CU300 / AW-CU300 V2

AW-CU300 is using NXP MW300 and AW-CU300 V2 is using NXP MW320, both of them have CE, FCC, IC, NCC, Brazil, Mexico, Argentina, China, Japan (TELEC) certificates, certificate ID are listed as below.

- **FCC ID: TLZ-CU300**

The final end product must be labeled in a visible area with the following: Contains "FCC ID: TLZ-CU300"

- **IC ID: 6100A-CU300**

The final end product must be labeled in a visible area with the following: "Contains IC ID: 6100A-CU300"

- **NCC ID: CCAI18LP2100T8**



- **Brazil ID: 01874-16-03657**

The final end product must be labeled in a visible area with the following: Contains "**ANATEL: 01874-16-03657**"

- **Mexico ID: RCPAZAW17-0602**

The final end product must be labeled in a visible area with the following: Contains "**IFT: RCPAZAW17-0602**"

- **Argentina ID: C-16113**


The final end product must be labeled in a visible area with the following: Contains "**CNC ID: C-16113**"

- **China: 2016DJ1791 (M)**

The final end product must be labeled in a visible area with the following: Contains "**CMIT ID: 2016DJ1791 (M)**"

- **Japan TELEC: 201-1528636**



 201-152863

2. Antenna Filing Policy

AW-CU300 was certified with many antennas. The antenna list could be found in [Appendix 1](#). If you have preferred antenna to be used with AW-CU300, antenna filing is necessary.

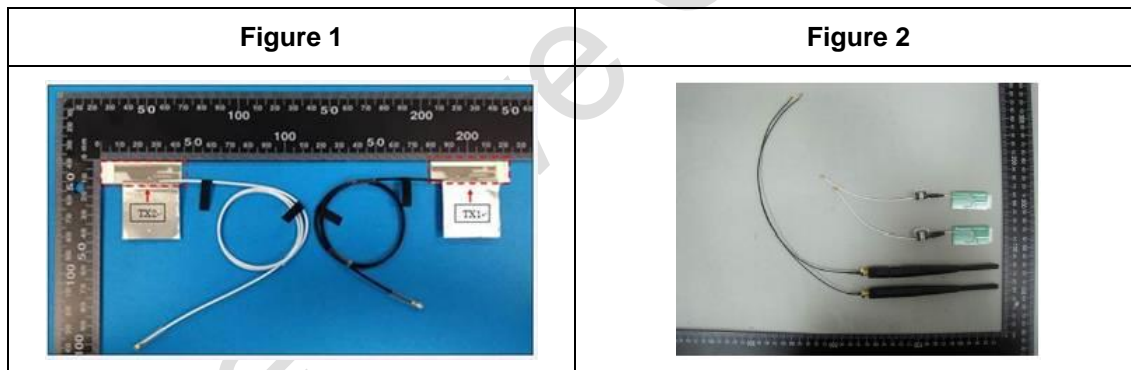
Before applying antenna filing, please notice that below policies

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

FCC, CE, IC, NCC 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



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

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
2020/01/02	2020/01/08	2020/01/22	2020/02/06
2020/03/02	2020/03/11	2020/03/25	2020/04/29
2020/05/04	2020/05/13	2020/05/27	2020/06/24
2020/07/06	2020/07/15	2020/07/29	2020/08/26
2020/09/07	2020/09/16	2020/09/30	2020/10/28
2020/10/26	2020/11/04	2020/11/18	2020/12/16

Appendix 1

Antenna No.	Brand	Model Name	Antenna Gain(dBi) (including cable loss)	Frequency range	Antenna Type	Connector Type	Cable Length
1(Internal)	AzureWave	AW-CU300 ANT	5.12	2.4~2.4835GHz	PCB	NA	NA
2(External)	TAOGLAS	FXP73.07.0100A	3	2.4~2.4835GHz	Monopole	I-PEX	100mm
3(External)	TAOGLAS	PC11.07.0100A	3	2.4~2.4835GHz	Dipole	I-PEX	100mm
4(External)	TAOGLAS	FXP74.07.0100A	4	2.4~2.4835GHz	PIFA	I-PEX	100mm
5(External)	TAOGLAS	GW.17.07.0250E	2.7	2.4~2.4835GHz	Dipole	I-PEX	250mm
6(External)	TAOGLAS	PC17.07.0070A	0.9	2.4~2.4835GHz	PIFA	I-PEX	70mm
7(External)	LAIRD	NanoBlue-IP04_MAF94045	2	2.4~2.4835GHz	Monopole	I-PEX	100mm
8(External)	MAG.LAYERS	EDA_1313_2G4C1-A16	2.39	2.4~2.4835GHz	Dipole	I-PEX	150mm
9(External)	LAIRD	EBL2400A1-23UFL	2.45	2.4~2.4835GHz	Dipole	I-PEX	230mm
10(External)	MOLEX	1461530100	3	2.4~2.4835GHz	Dipole	I-PEX	100mm
11(External)	MOLEX	1461530150	2.8	2.4~2.4835GHz	Dipole	I-PEX	150mm
12(External)	MOLEX	1461530200	2.6	2.4~2.4835GHz	Dipole	I-PEX	200mm
13(External)	MOLEX	1461530250	2.4	2.4~2.4835GHz	Dipole	I-PEX	250mm
14(External)	MOLEX	1461530300	2.2	2.4~2.4835GHz	Dipole	I-PEX	300mm
15(External)	MOLEX	2042810050	2.2	2.4~2.4835GHz	Dipole	I-PEX	50mm
16(External)	MOLEX	2042810100	2	2.4~2.4835GHz	Dipole	I-PEX	100mm
17(External)	MOLEX	2042810150	1.8	2.4~2.4835GHz	Dipole	I-PEX	150mm
18(External)	MOLEX	2042810200	1.6	2.4~2.4835GHz	Dipole	I-PEX	200mm
19(External)	MOLEX	2042810250	1.4	2.4~2.4835GHz	Dipole	I-PEX	250mm
20(External)	MOLEX	2042810300	1.2	2.4~2.4835GHz	Dipole	I-PEX	300mm
21(External)	YAGEO	ANTX100F113B24003	2.9	2.4~2.4835GHz	PIFA	I-PEX	100mm
22(External)	YAGEO	ANTX100P113B24003	2.8	2.4~2.4835GHz	PIFA	I-PEX	100mm
23(External)	LYNWAVE	ALA110-052020	2	2.4~2.4835GHz	Dipole	I-PEX	50mm
24(External)	LYNWAVE	ALA120-052024	2	2.4~2.4835GHz	Dipole	I-PEX	160mm
25(External)	LYNWAVE	ALA150-052020	2	2.4~2.4835GHz	Dipole	I-PEX	85mm
26(External)	LYNWAVE	ALA140-05102J	2	2.4~2.4835GHz	Dipole	I-PEX	40mm
27(External)	LYNWAVE	ALA120-051020	2	2.4~2.4835GHz	Dipole	I-PEX	50mm
28(External)	LYNWAVE	ALA120-051022	2	2.4~2.4835GHz	Dipole	I-PEX	100mm
29(External)	LYNWAVE	ALA140-051020	1.88	2.4~2.4835GHz	Dipole	I-PEX	70mm
30(External)	LYNWAVE	ALA150-05102B	2	2.4~2.4835GHz	Dipole	I-PEX	100mm
31(External)	LYNWAVE	ALA150-05102C	2	2.4~2.4835GHz	Dipole	I-PEX	75mm
32(External)	LYNWAVE	ALA150-05102F	2	2.4~2.4835GHz	Dipole	I-PEX	140mm
33(External)	LYNWAVE	ALA150-05102J	2	2.4~2.4835GHz	Dipole	I-PEX	100mm
34(External)	LYNWAVE	ALA140-05102D	2	2.4~2.4835GHz	Dipole	I-PEX	95mm
35(External)	LYNWAVE	ALA150-051026	2	2.4~2.4835GHz	Dipole	I-PEX	150mm