AW-CU603

Wireless MCU with Integrated Wi-Fi 6 Microcontroller Module

<u>Datasheet</u>

Rev. A

DF

For Dell

![AzureWave Technologies, Inc. logo]

Features

WLAN

◆ 1x1 dual-band 2.4 GHz/5 GHz Wi-Fi 6 radio

◆ 20 MHz channel operation

◆ Wi-Fi 6 Target Wake Time(TWT) support

◆ Wi-Fi 6 Extended Range (ER) and Dual Carrier Modulation (DCM)

◆ Low-power Wi-Fi idle, standby, and sleep modes

◆ WPA/WPA2/WPA3 personal and enterprise

◆ Support for Matter over Wi-Fi

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Revision History

Document NO: R2-2603-DST-01

Version	Revision Date	DCN NO.	Description	Initials	Approved
A	2024/05/07	DCN031572	● Draft version	Roger Liu	N.C Chen

Table of Contents

1. Introduction

1.1 Product Overview

AzureWave **AW-CU603** is a highly integrated, low-power Wireless RW610 MCU with an integrated MCU and Wi-Fi 6 designed for a broad array of applications. Applications include connected smart home devices, enterprise and industrial automation, smart accessories, and smart energy.

AW-CU603 includes a 260 MHz Arm Cortex-M33 core with TrustZone-M, 1.2 MB on-chip SRAM and a Quad SPI interface with high bandwidth, and an on-the-fly decryption engine for securely accessing off-chip XIP flash.

AW-CU603 includes a full-featured 1x1 dual-band (2.4 GHz / 5 GHz) 20 MHz Wi-Fi 6 (802.11ax) subsystem bringing higher throughput, better network efficiency, lower latency, and improved range over previous generation Wi-Fi standards.

The advanced design of the **AW-CU603** delivers tight integration, low power, and highly secure operation in a space- and cost-efficient wireless MCU requiring only a single 3.3 V power supply.

1.2 Block Diagram

TBD

1.3 Specifications Table

1.3.1 General

Features	Description
Product Description	Wi-Fi 6 1x1 Microcontroller Module
Major Chipset	NXP RW610 HVQFN (116 pins)
Host Interface	UART / I2C / USB
Dimension	22 mm x 30 mm x 2.45 mm
Package	M.2 2230
Antenna	I-PEX MHF4 Connector Receptacle (20449) 1x1 diversity on MAIN ANT and AUX ANT
Weight	2.64g

1.3.2 WLAN

Features	Description
WLAN Standard	IEEE 802.11 a/b/g/n/ac/ax 1T1R
WLAN VID/PID	NA
WLAN SVID/SPID	NA
Frequency Rage	■ 2.4 GHz ISM Bands 2.412-2.472 GHz ■ 5.15-5.25 GHz (FCC UNII-low band) for US/Canada and Europe ■ 5.25-5.35 GHz (FCC UNII-middle band) for US/Canada and Europe ■ 5.47-5.725 GHz for Europe ■ 5.725-5.825 GHz (FCC UNII-high band) for US/Canada ■ 5.825-5.885 GHz (FCC UNII-4) for US/Canada
Modulation	DSSS, OFDM, DBPSK, DQPSK, CCK,16-QAM, 64-QAM, 256-QAM,
Number of Channels	2.4GHz: ■ USA, NORTH AMERICA, Canada and Taiwan - 1 ~ 11 ■ China, Australia, Most European Countries - 1 ~ 13 ■ Japan, 1 ~ 13 5GHz: ■ USA, Canada, Most European Countries -36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144,

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	149, 153, 157, 161, 165, 169, 173, 177
	■ Japan - 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140
	■ China - 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165

Output Power (Board Level Limit)*

2.4G

	Min	Typ	Max	Unit
11b (11Mbps) @EVM<35%	16	18	20	dBm
11g (54Mbps) @EVM≦-25 dB	14.5	16	17.5	dBm
11n (HT20 MCS7) @EVM≦-27 dB	13.5	15	16.5	dBm
11ax(HE20 MCS9) @EVM≦-32 dB	12.5	14	15.5	dBm

5G

	Min	Typ	Max	Unit
11a (54Mbps) @EVM≦-25 dB	14	16	18	dBm
11n (HT20 MCS7) @EVM≦-27 dB	13	15	17	dBm
11ac(VHT20 MCS8) @EVM≦-30 dB	12	14	16	dBm
11ax(HE20 MCS9) @EVM≦-32 dB	11	13	15	dBm

Receiver Sensitivity

2.4G

	Min	Typ	Max	Unit
11b (11Mbps)	-	-87	-84	dBm
11g (54Mbps)	-	-73	-70	dBm
11n (HT20 MCS7)	-	-70	-67	dBm
11ax (HE20 MCS9)	-	-64	-61	dBm

5G

	Min	Typ	Max	Unit
11a (54Mbps)		-73	-70	dBm
11n (HT20 MCS7)		-70	-67	dBm
11ac(VHT20 MCS8)		-66	-63	dBm
11ax(HE20 MCS9)		-64	-61	dBm

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|	WLAN:
Data Rate	802.11b : 1, 2, 5.5, 11Mbps 802.11a/g : 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n : Maximum data rates up to 72 Mbps (20 MHz channel) 802.11ac: Maximum data rates up to 87 Mbps (20 MHz channel) 802.11ax: Maximum data rates up to 115 Mbps (20 MHz channel)
Security	■ Wi-Fi: WPA2/WPA3 personal and enterprise and AES/CCMP/CMAC/GCMP

* If you have any certification questions about output power please contact FAE directly.

1.3.3 Operating Conditions

Features	Description
Operating Conditions	
Voltage	3.3V +-5%
Operating Temperature	-40℃ to +85℃
Operating Humidity	Less than 85% R.H.
Storage Temperature	-40℃ to +85℃
Storage Humidity	Less than 60% R.H.
ESD Protection	
Human Body Model	TBD
Changed Device Model	TBD

2. Pin Definition

2.1 Pin Map

PIN DEFINED (TOP VIEW)

75 73 71 69 67 65 63 61 59 57 55 53 51 49 47 45 43 41 39 37 35 33   23 21 19 17 15 13 11 9 7 5 3 1
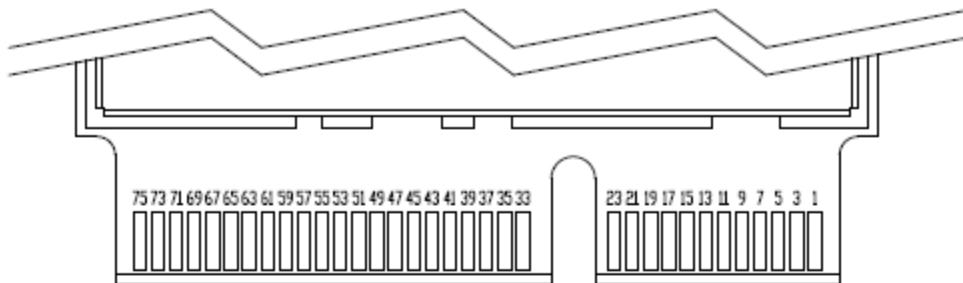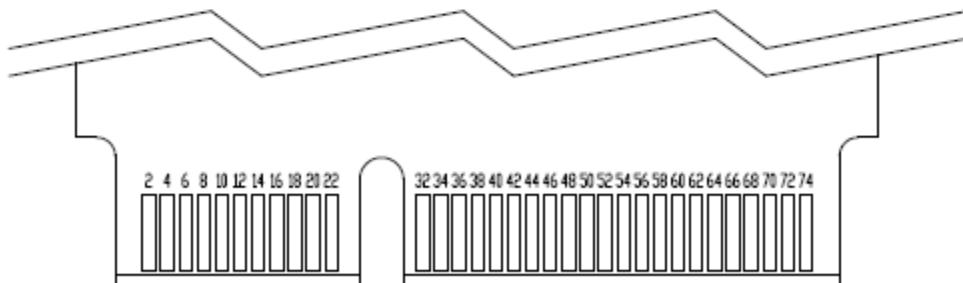
PIN DEFINED (BOTTOM VIEW)

2 4 6 8 10 12 14 16 18 20 22   32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74

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2.2 Pin Table

Pin No	Definition	Basic Description	Voltage	Type
1	GND	Ground		GND
2	+3.3V	3.3V power supply.	3.3V	Power
3	USB_D+	USB bus data+	3.3V	I/O
4	+3.3V	3.3V power supply	3.3V	Power
5	USB_D-	USB bus data-	3.3V	I/O
6	LED1#	GPIO[11], PWM output	3.3V	I/O
7	GND	Ground		GND
8	NC	No connect to anything		Floating
9	NC	No connect to anything		Floating
10	NC	No connect to anything		Floating
11	NC	No connect to anything		Floating
12	NC	No connect to anything		Floating
13	NC	No connect to anything		Floating
14	NC	No connect to anything		Floating
15	NC	No connect to anything		Floating
16	LED2#	GPIO[42], ADC0 channel 0	3.3V	I/O
17	NC	No connect to anything		Floating
18	GND	Ground.		GND
19	GND	Ground.		GND
20	UART WAKE#	UART Host Wake	3.3V	O
21	NC	No connect to anything		Floating
22	UART TxD	UART_SOUT	3.3V	O
23	NC	No connect to anything		Floating
32	UART RxD	UART_SIN	3.3V	I
33	GND	Ground.		GND
34	UART RTS	UART_RTS	3.3V	O
35	NC	No connect to anything		Floating
36	UART CTS	UART_CTS	3.3V	I
37	NC	No connect to anything		Floating
38	Board ID	GPIO[43]	3.3V	I/O
39	GND	Ground		GND
40	CONFIG_HOST_BOOT[0]	Host configuration options **HW Strap pin for ISP boot mode or for programing Flash**	1.8V	I/O

		1= Boot from FlexSPI Flash (Default)		
		0= ISP boot from UART to programing flash		
41	NC	No connect to anything		Floating
42	Vendor defined	Reserve No connect to anything		Floating
43	NC	No connect to anything		Floating
44	Alert# _EC	GPIO[22]	3.3V	O
45	GND	Ground		GND
46	I2C1_DATA	GPIO[9] FC1_RXD_SDA_MOSI_DATA_I2C: Flexcomm1 I2C data in/out	3.3V	I/O
47	NC	No connect to anything		Floating
48	I2C1_CLK	GPIO[8] FC1_TXD_SCL_MISO_WS_I2C: Flexcomm1 I2C clock	3.3V	I/O
49	NC	No connect to anything		Floating
50	NC	No connect to anything		Floating
51	GND	Ground		GND
52	NC	No connect to anything		Floating
53	NC	No connect to anything		Floating
54	NC	No connect to anything		Floating
55	NC	No connect to anything		Floating
56	W_DISABLE1#	Full Power-down (input) (active low) 0 = full power-down mode 1 = normal mode This pin has internal pull high 51k resistor to 3.3V	3.3V	I
57	GND	Ground		GND
58	I2C0_DATA	GPIO[2] FC0_RXD_SDA_MOSI_DATA_I2C: Flexcomm0 I2C data in/out	3.3V	I/O
59	NC	No connect to anything		Floating
60	I2C0_CLK	GPIO[3] FC0_TXD_SCL_MISO_WS_I2C: Flexcomm0 I2C clock	3.3V	I/O
61	NC	No connect to anything		Floating
62	ALERT#	GPIO[27]	3.3V	O
63	GND	Ground		GND
64	NC	No connect to anything		Floating
65	NC	No connect to anything		Floating
66	NC	No connect to anything		Floating

67	NC	No connect to anything		Floating
68	NC	No connect to anything		Floating
69	GND	Ground		GND
70	NC	No connect to anything		Floating
71	NC	No connect to anything		Floating
72	+3.3V	3.3V power supply	3.3V	Power
73	NC	No connect to anything		Floating
74	+3.3V	3.3V power supply	3.3V	Power
75	GND	Ground		GND

3. Electrical Characteristics

3.1 Absolute Maximum Ratings

Symbol	Parameter	Minimum	Typical	Maximum	Unit
VBAT	DC supply for the 3.3V input	-	3.3	3.96	V
VIO	1.8 V/3.3 V digital I/O power supply	-	1.8	2.16	V
			3.3	3.96	V

3.2 Recommended Operating Conditions

Symbol	Parameter	Minimum	Typical	Maximum	Unit
VBAT	DC supply for the 3.3V input	3.14	3.3	3.46	V
VIO	1.8 V/3.3 V digital I/O power supply	1.71	1.8	1.89	V
		3.14	3.3	3.46	V

3.3 Digital IO Pin DC Characteristics

3.3.1 VIO 1.8V Operation

Symbol	Parameter	Minimum	Typical	Maximum	Unit
VIO	I/O pad supply voltage	1.62	1.8	1.98	V
V_{IH}	Input high voltage	0.7*VIO	-	VIO+0.4	V
V_{IL}	Input low voltage	-0.4	-	0.3*VIO	
V_{OH}	Output High Voltage	VIO-0.4	-	-	
V_{OL}	Output Low Voltage	-	-	0.4	
V_{HYS}	Input Hysteresis	100			mV

3.3.2 VIO 3.3V Operation

Symbol	Parameter	Minimum	Typical	Maximum	Unit
VIO	I/O pad supply voltage	2.97	3.3	3.63	V
V_{IH}	Input high voltage	0.7*VIO	-	VIO+0.4	V
V_{IL}	Input low voltage	-0.4	-	0.3*VIO	

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V$_{OH}$	Output High Voltage	VIO-0.4	-	-	
V$_{OL}$	Output Low Voltage	-	-	0.4	
V$_{HYS}$	Input Hysteresis	100			mV

3.4 Power On Sequence
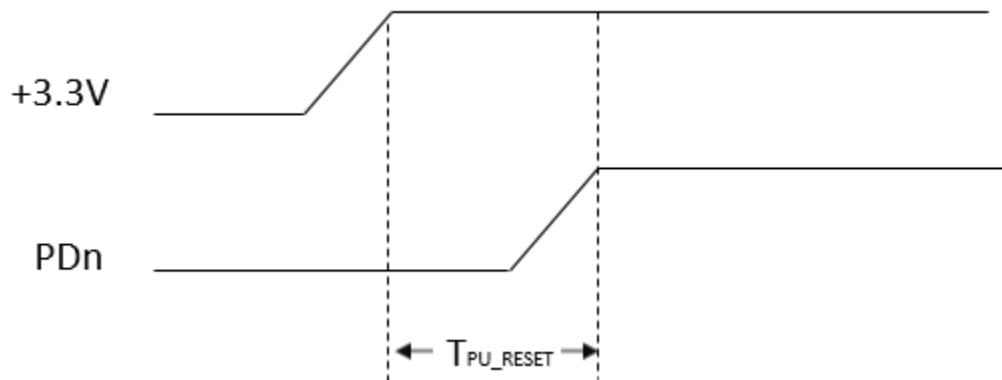
Symbol	Parameter	Min	Typ	Max	Units
T$_{PU\_RESET}$	Valid power to PDn deasserted	0	-	-	ms

3.5 Power Consumption

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3.5.1 WLAN

Band (GHz)	Mode	BW (MHz)	RF Power (dBm)	VBAT_IN=3.3 V	
				Transmit	
				Max.	Avg.
2.4	11b@1Mbps	20	18	291	286
	11g@54Mbps	20	16	266	251
	11n@MCS7	20	15	243	230
	11ax@MCS0 NSS1	20	14	235	230
	11ax@MCS11 NSS1	20	14	240	222
5	11a@6Mbps	20	16	391	384
	11n@MCS7	20	15	375	354
	11ac@MCS0 NSS1	20	14	352	347
	11ac@MCS8 NSS1	20	14	350	327
	11ax@MCS0 NSS1	20	13	340	334
	11ax@MCS11 NSS1	20	13	337	315

Band (GHz)	Mode	BW(MHz)	Receive	
			Max.	Avg.
2.4	11b@11Mbps	20	90	86
	11g@54Mbps	20	92	89
	11n@MCS7	20	91	88
	11ax@MCS11 NSS1	20	87	83
5	11a@54Mbps	20	108	104
	11n@MCS7	20	109	104
	11ac@MCS8 NSS1	20	107	104
	11ax@MCS11 NSS1	20	107	102

Current Unit: mA

3.5.2 Normal Mode

MCU Status	WiFi Deep Sleep	WiFi STA Connected		WiFi IEEE Power Saving				WiFi Power Down
				2.4G		5G		
		2.4G	5G	DTIM 1	DTIM10	DTIM1	DTIM 10	
VBAT_IN=3.3V								
PM0(Active)	27.1	71.8	91.5	NA				27.2
PM1(Idle)	18.3	62.8	83.5	21.1	18.8	19.4	18.6	18.4
PM2(Standby)	7.1	51.9	72.5	10.2	7.7	8.2	7.6	7.0
PM3(Sleep)	2.7	50.3	71.2	6.0	3.2	3.8	3.7	2.7
PM4(Shutdown)	NA	NA		NA				NA

Current Unit: mA

3.5.3 Peak Current

No.	Item	VBAT=3.3 V
		Max.
1	Peak current during device initialization	547
2	Peak current during device scan AP	534
3	Peak current during device connect AP	515

Current Unit: mA

4. Mechanical Information

4.1 Mechanical Drawing
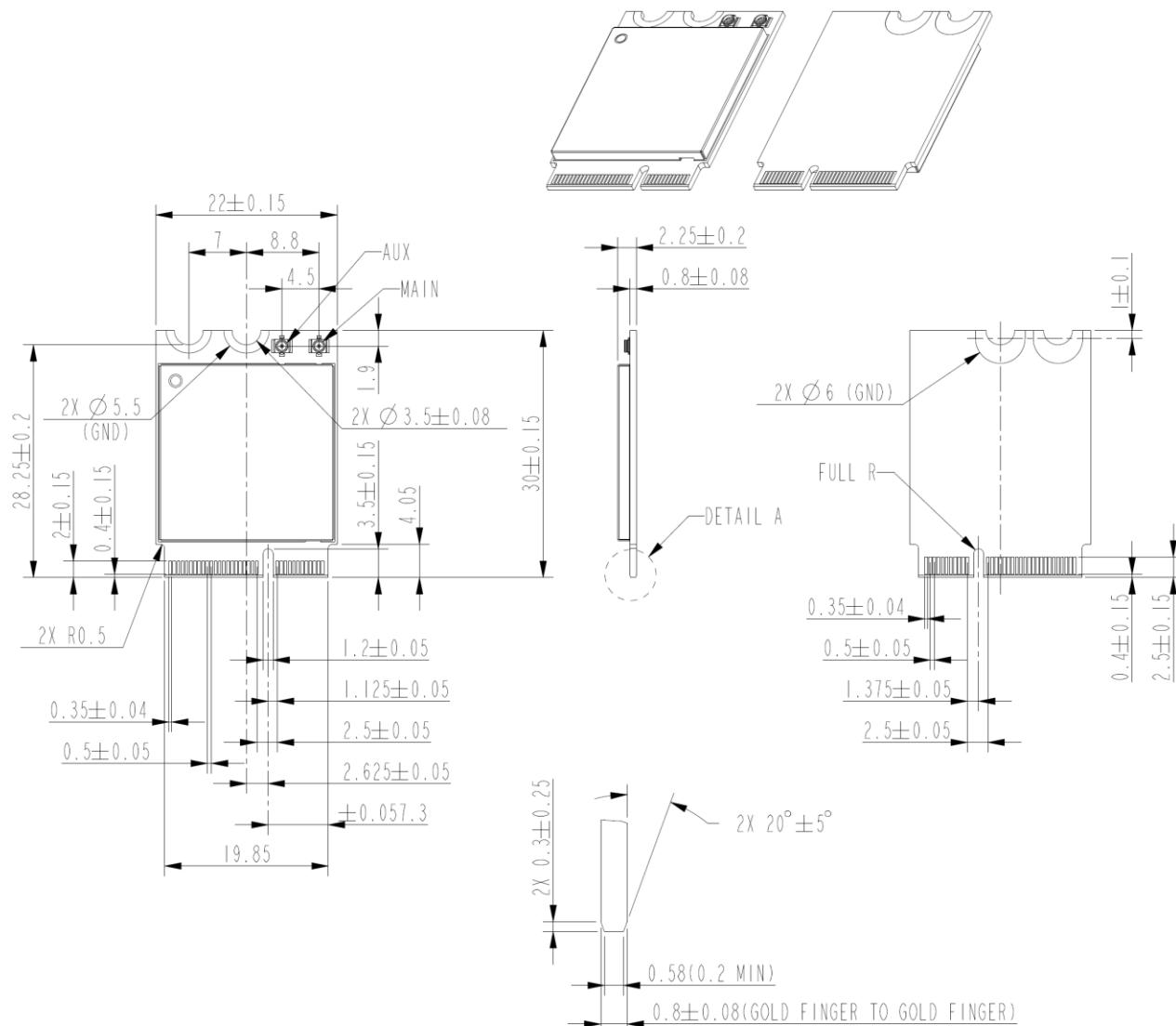
5. Packing Information
1. 84pcs M.2 2230 modules put in one tray

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2. The trays are stacked with each other, and add more one tray on the top, so the total number of trays is 14pcs, i.e. 13pcs tray (full) and 1pcs tray (empty)
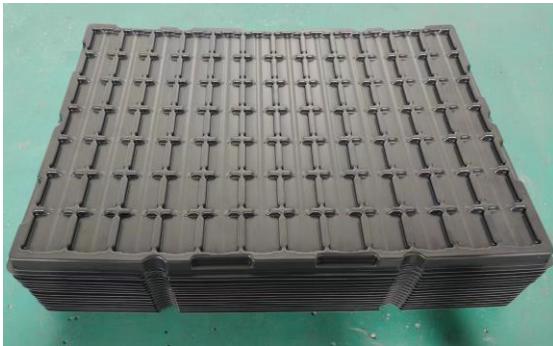
3. Use P.P Strap to pack 14pcs trays and add one packing label on the top

Example:

2-XXXXXX-XXX　YYYY **PCS**
有限公司

PCKNO0472885

4. Put the two packed tray into the box

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5. Seal the carton by AzureWave tape

6. One carton label and one box label pasted on the carton. If the carton is not full, add one balance label pasted on the carton

One carton label

One box label

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Label Information on the carton

<table>
<tr>
<td>Example of Packing Label</td>
<td>2-XXXXXX-XXX   YYYY **PCS**
有限公司

[barcode]
PCKNO0472885</td>
</tr>
<tr>
<td>Example of carton label</td>
<td>

AzureWave AzureWave Technologies Inc.	
AzureWave P/N	AW-CU603
Customer	Provided by Sales(由业务提供)
Customer P/N	Provided by Sales(由业务提供)
Customer P/O	Provided by Sales(由业务提供)
Description	AW-CU603
Q'ty	依照实际出货数量
C/N	依实际情况填写
N.W.	G.W.

RoHS HF Made in China
</td>
</tr>
<tr>
<td>Example of box label</td>
<td>2-XXXXXX-XXX   YYYY **PCS**
有限公司

[barcode]
BOX0293129</td>
</tr>
<tr>
<td>Example of balance label</td>
<td>尾 数
Balance</td>
</tr>
</table>

Note:

◆ **1 Packed Tray = 13pcs Tray = 1092 pcs**

◆ **1 Carton = 2 Packed Tray = 2184 pcs**

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Industry Canada Statement

CAN ICES-3(B)/ NMB-3(B)
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement:
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20cm between the radiator & your body.
Déclaration d'exposition aux radiations:
Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20 cm entre le radiateur et votre corps.

Caution :
(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
(ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
(iii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate;
(iv) where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.
Avertissement:
(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
(ii) pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5 250 à 5 350 MHz et de 5 470 à 5 725 MHz doit être conforme à la limite de la p.i.r.e;
(iii) pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée, selon le cas;
(iv) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

This module is limited to OEM installation ONLY.

2.2 List of applicable FCC rules

Compliance with FCC Part 15C, 15E regulation.

2.3 Specific operational use conditions

The module is tested for standalone mobile RF exposure use condition. Any other usage conditions such as co-location with other transmitter(s) will need a separate reassessment through a class II permissive change application or new certification.

The U-NII Band 4 is limited to indoor use applications, and the host user manual must include this notice.

2.4 Limited module procedures

Not applicable to this device

2.6 RF exposure considerations

This module is limited to installation in mobile or fixed applications, according to §2.1091(b). The separate approval is required for all other operating configurations, including portable configurations with respect to Part §2.1093 and different antenna configurations

2.7 Antennas:

(1) The antenna must be installed such that 20 cm is maintained between the antenna and users,

(2) The transmitter module may not be co-located with any other transmitter or antenna.

(3) To comply with FCC/IC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a mobile exposure condition must not exceed:

Antenna Type: PIFA

Antenna gain: 3.5 dBi in 2.4GHz (frequency); 5 dBi in 5 GHz (frequency)

Antenna Connector (if applicable): IPEX MHF4

*Note the host device's U-NII Band 4 antenna must be an integral antenna.

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC/IC authorization is no longer considered valid and the FCC ID/IC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC/IC authorization.

2.8 Label and compliance information

When the module is installed in the host device, the FCC ID/ IC ID label must be visible through a window on the final device or it must be visible when an access panel, door or cover is easily re-moved. If not, a second label must be placed on the outside of the final device that contains the following text: "Contains FCC ID: TLZ-CU603", "Contains IC: 6100A-CU603 "

The grantee's FCC ID/IC ID can be used only when all FCC/IC compliance requirements are met.

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

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Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For a **Class A** digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For a **Class B** digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

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(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

2.9 Information on test modes and additional testing requirements

This radio module must not be installed to co-locate and operating simultaneously with other radios in the host system except in accordance with FCC multi-transmitter product procedures. Additional testing and equipment authorization may be required operate simultaneously with other radio.

2.10 Additional testing, Part 15 Subpart B disclaimer

The host manufacturer is required to show compliance with Part 15 Subpart B while the transmitter module(s) are installed and operating. The modules should be transmitting and the evaluation should confirm that the module's intentional emissions are compliant (i.e. fundamental and out of band emissions). The host manufacturer must verify that there are no additional unintentional emissions other than what is permitted in Part 15 Subpart B or emissions are complaint with the transmitter(s) rule(s).

2.11 Note EMI Considerations

Please follow the guidance provided for host manufacturers in KDB publications 996369 D02 and D04.

2.12 How to make changes

Only Grantees are permitted to make permissive changes. Please contact us if the host integrator expect the module to be used differently than as granted:
Company Name: AzureWave Technologies (USA), Inc.
Company Address:467 Saratoga ave #108 San Jose, CA 95129 United States

NCC :
取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。
應避免影響附近雷達系統之操作。
本模組於取得認證後將依規定於模組本體標示審驗合格標籤, 並要求平台廠商於平台上標示「本產品內含射頻模組⪦CC XX xx LP yyy Z z。」

Japan :
5GHz band (W52,W53): Indoor use only (except communicate to W52 high power radio)

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