



PRODUCT SPECIFICATION

6252B-PR

Wi-Fi Dual-band 2x2 11ax + BT 5.2

PCIe Combo Module

Version:v2.0

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6252B-PR Module Datasheet

Ordering Information	Part NO.	Description
	FG6252BPRX-00	RTL8852BE-VR-CG,a/b/g/n/ac/ax WiFi,2T2R+BT5.2, 13*15mm, PCIE+UART,PCB V3.0,2antenna,no shielding
	FG6252BPRX-01	RTL8852BE-VR-CG,a/b/g/n/ac/ax WiFi,2T2R+BT5.2, 13*15mm, PCIE+UART,PCB V3.0,3antenna,no shielding
	FG6252BPRX-K1	RTL8852BE-VR-CG,a/b/g/n/ac/ax WiFi,2T2R+BT5.2, 13*15mm, PCIE+UART,PCB V3.0,3antenna,no shielding,
	FG6252BPRX-Z1	RTL8852BE-VR-CG,a/b/g/n/ac/ax WiFi,2T2R+BT5.2, 13*15mm, PCIE+UART,PCB V3.0,3antenna,no shielding,(For ZX)
	FG6252BPRX-02	RTL8852BE-VR-CG,a/b/g/n/ac/ax WiFi,2T2R+BT5.2, 13*15mm, PCIE+UART,PCB V3.0,2antenna,with shielding
	FG6252BPRX-03	RTL8852BE-VR-CG,a/b/g/n/ac/ax WiFi,2T2R+BT5.2, 13*15mm, PCIE+UART,PCB V3.0,3antenna,with shielding
	FG6252BPRX-X2	RTL8852BE-VR-VG,a/b/g/n/ac/ax Wi-Fi,2T2R+BT5.2,13*15mm,PCIE,UART,2 antenna,with shielding

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[illegible]

1. General Description

1.1 Introduction

6252B-PR support 2-stream 802.11ax solution with MU-MIMO with WLAN PCIe interface and HS-UART mixed interface. It combines a WLAN MAC, a 2T2R capable WLAN baseband, RF Support 802.11 a/b/g/n/ac/ax 20MHz/40MHz/80MHz bandwidth and provide up to 1201Mbps for 11ax MIMO OFDM.

Support STBC,LDPC,TXBF.combined with BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM modulation of individual subcarriers. Module can receive with OFDMA technology.the RU size can be supported from small unit,e.g,RU26,and RU52,106,242,484,and finally up to RU996.

Module solution supports 802.11e/i/WAPI.

1.2 Description

Model Name	6252B-PR
Product Description	Support Wi-Fi/Bluetooth functionalities
Dimension	L x W x H: 15 x 13 mm
Wi-Fi Interface	Support PCIe
BT Interface	UART / PCM
OS supported	Android /Linux/ Win CE /iOS /XP/WIN7/WIN10
Operating temperature	0°C to 70°C
Storage temperature	-40°C to 85°C

2. Features

General

- Support IEEE802.11a/b/g/n/ac/ax .
- Support 802.11ac 2x2, Wave-2 compliant with RX MU-MIMO.
- Support 802.11ax 2x2, with OFDMA and MU-MIMO, by 4 types PPDU format, such as HE-SU-PPDU, HE-ER-SU-PPDU, HEMU-PPDU, and HE-TB-PPDU.
- Dual-stream spatial multiplexing up to 1201 Mbps data rate.
- Supports 20/40MHz bandwidth at 2.4GHz and 20/40/80MHz 5GHz band channels .
- Complies with PCI express base specification revision 1.1.
- Support 802.11e,i,h,k. WAPI.
- Supports Wake-On-WLAN via Magic Packet and Wake-up.
- Transmit Beamforming.
- Support DFS, Channelinfo, PPDU state by Rx path.
- Support STBC, LDPC, and Hardware antenna diversity, Maximum-Likelihood Detection.

Host Interface

- PCIe LTR/L1.Off state supported
- Supports WLAN/Bluetooth coexistence

Bluetooth Features

- Complies with HS-UART with configurable baud rate for BT
- Supports Bluetooth 5 system (BT5.2 Logo Compliant)
- Compatible with Bluetooth v2.1+EDR
- Dual Mode support: Simultaneous LE and BR/EDR
- Supports multiple Low Energy states
- Integrated 32K oscillator for power management
- BT host digital interface:
 - HCI UART

3. General Specification

3.1 2.4G RF Specification

Conditions : VBAT=3.3V ; VDDIO=3.3V ; Temp:25°C

Feature	Description		
WLAN Standard	IEEE 802.11 b/g/n/ax Wi-Fi compliant		
Frequency Range	2.400 GHz ~ 2.4835 GHz (2.4 GHz ISM Band)		
Number of Channels	2.4GHz: Ch1 ~ Ch13		
Test Items	Typical Value		Standard Value
Spectrum Mask	Meet with IEEE standard		
Freq. Tolerance	± 20ppm		
SISO Receive Sensitivity (11b,20MHz) @8% PER	- 1Mbps @ -94 dBm		≤-83 dBm
	- 11Mbps @ -85 dBm		≤-76 dBm
SISO Receive Sensitivity (11g,20MHz) @10% PER	- 6Mbps @ -90 dBm		≤-85 dBm
	- 54Mbps @ -71 dBm		≤-68 dBm
SISO Receive Sensitivity (11n,20MHz) @10% PER	- MCS=0 @ -90 dBm		≤-85 dBm
	- MCS=7 @ -69 dBm		≤-67 dBm
SISO Receive Sensitivity (11n,40MHz) @10% PER	- MCS=0 @ -87 dBm		≤-82 dBm
	- MCS=7 @ -66 dBm		≤-64 dBm
SISO Receive Sensitivity (11ax,20MHz) @10% PER	- MCS=0 @ -90 dBm		≤-74 dBm
	- MCS=11 @ -60 dBm		≤-52 dBm
SISO Receive Sensitivity (11ax,40MHz) @10% PER	- MCS=0 @ -87 dBm		≤-71 dBm
	- MCS=11 @ -57 dBm		≤-49 dBm
Maximum Input Level	802.11b : -10 dBm		
	802.11g/n : -20 dBm		

3.2 5GHz RF Specification

Conditions : VBAT=3.3V ; VDDIO=3.3V ; Temp:25°C

Feature	Description	
WLAN Standard	IEEE 802.11a/n/ac/ax, Wi-Fi compliant	
Frequency Range	5.15 GHz ~ 5.850 GHz (5 GHz Band)	
Number of Channels	5.0GHz: Please see the table ¹	
Test Items	Test Value	Standard Value
SISO Receive Sensitivity (11a,20MHz) @10% PER	- 6Mbps @ -90 dBm	≤-85 dBm
	- 54Mbps @ -71 dBm	≤-68 dBm
SISO Receive Sensitivity (11n,20MHz) @10% PER	- MCS=0 @ -90 dBm	≤-85 dBm
	- MCS=7 @ -69 dBm	≤-67 dBm
SISO Receive Sensitivity (11n,40MHz) @10% PER	- MCS=0 @ -87 dBm	≤-82 dBm
	- MCS=7 @ -66 dBm	≤-64 dBm
SISO Receive Sensitivity (11ac,20MHz)@10% PER	- MCS=0, NSS1 @ 90 dBm	≤-82 dBm
	- MCS=8, NSS1 @ -64 dBm	≤-60 dBm
SISO Receive Sensitivity (11ac,40MHz) @10% PER	- MCS=0, NSS1 @ -87 dBm	≤-79 dBm
	- MCS=9, NSS1 @ -59 dBm	≤-55 dBm
SISO Receive Sensitivity (11ac,80MHz) @10% PER	- MCS=0, NSS1 @ -84 dBm	≤-79 dBm
	- MCS=9, NSS1 @ -56 dBm	≤-54 dBm
SISO Receive Sensitivity (11ax,20MHz) @10% PER	- MCS=0 @ -90 dBm	≤-74 dBm
	- MCS=11 @ -60 dBm	≤-52 dBm
SISO Receive Sensitivity (11ax,40MHz) @10% PER	- MCS=0 @ -87 dBm	≤-71 dBm
	- MCS=11 @ -57 dBm	≤-49 dBm
SISO Receive Sensitivity (11ax,80MHz) @10% PER	- MCS=0 @ -84 dBm	≤-68 dBm
	- MCS=11 @ -54 dBm	≤-46 dBm
Maximum Input Level	802.11a/n: -30 dBm	

1. 2. 2.4G,5G output power control by firmware power by rate table

15GHz(20MHz) Channel table

Band range	Operating Channel Numbers	Channel center frequencies(MHz)
5150MHz~5250MHz	36	5180
	40	5200
	44	5220
	48	5240
5250MHz~5350MHz	52	5260
	56	5280
	60	5300
	64	5320
5470MHz~5725MHz	100	5500
	104	5520
	108	5540
	112	5560
	116	5580
	120	5600
	124	5620
	128	5640
	132	5660
	136	5680
	140	5700
5725MHz~5850MHz	149	5745
	153	5765
	157	5785
	161	5805
	165	5825

3.3 Bluetooth Specification

Feature	Description		
General Specification			
Bluetooth Standard	BDR(1Mbps),EDR(2Mbps & 3Mbps),LE(1Mbps)		
Host Interface	UART		
Frequency Band	2400 MHz ~ 2483.5 MHz		
Number of Channels	79 channels for classic,40 channels for BLE		
Modulation	GFSK, $\pi/4$ -DQPSK, 8-DPSK		
RF Specification			
	Min(dBm)	Typical(dBm)	Max(dBm)
Sensitivity @ BER=0.1% for GFSK (1Mbps)		-89	
Sensitivity @ BER=0.01% for $\pi/4$ -DQPSK (2Mbps)		-86	
Sensitivity @ BER=0.01% for 8DPSK (3Mbps)		-85	
Maximum Input Level	GFSK (1Mbps):-20dBm		
	$\pi/4$ -DQPSK (2Mbps) :-20dBm		
	8DPSK (3Mbps) :-20dBm		

4. ID setting information

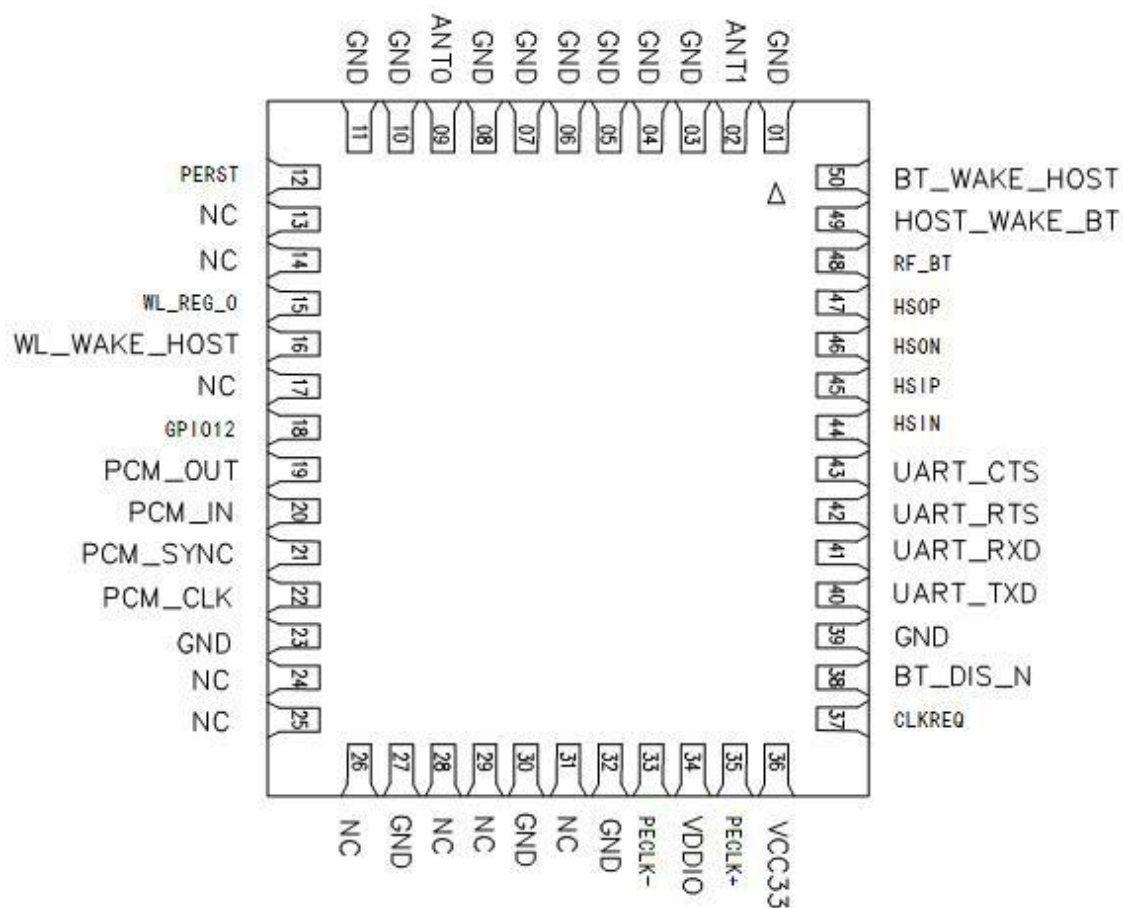
WI-FI

Vendor ID	10EC
Product ID	B852

5. Pin Definition

5.1 Pin Outline

< TOP VIEW >



5.2 Pin Definition details

NO.	Name	Type	Description	Voltage
1	GND	—	Ground connections	
2	ANT1	I/O	RF I/O port chain1, Dual band Wi-Fi and BT(2 ant type)	

3	GND	—	Ground connections	
4	GND	—	Ground connections	
5	GND	—	Ground connections	
6	GND	—	Ground connections	
7	GND	—	Ground connections	
8	GND	—	Ground connections	
9	ANT0	I/O	RF I/O port chain0, dual band Wi-Fi	
10	GND	—	Ground connections	
11	GND	—	Ground connections	
12	PERST	I/O	PCIE reset, active low	1.8V or 3.3V
13	NC	—	No connect	
14	NC	—	No connect	
15	WL_REG_O	I	GPIO9,WL RESET, Default ON: pull high; OFF: pull low	VDDIO
16	WL_WAKE_HOST	O	WAKE#, WLAN wake-up HOST, active low	1.8V or 3.3V
17	NC	—	No connect	
18	GPIO12	I/O	IO pin, if not used please NC	VDDIO
19	PCM_OUT	O	PCM Data output Not supported please NC	VDDIO
20	PCM_IN	I	PCM data input Not supported please NC	VDDIO
21	PCM_SYNC	I/O	PCM sync signal Not supported please NC	VDDIO
22	PCM_CLK	I/O	PCM clock Not supported please NC	VDDIO
23	GND	—	Ground connections	
24	NC	—	No connect	
25	NC	—	No connect	
26	NC	—	No connect	
27	GND	—	Ground connections	
28	NC	—	No connect	
29	NC	—	No connect	
30	GND	—	Ground connections	
31	NC	—	No connect	
32	GND	—	Ground connections	
33	PECLK-	I/O	PCIE CLK-	

34	VDDIO	P	I/O Voltage supply input 1.8V or 3.3V	1.8V or 3.3V
35	PECLK+	I/O	PCIE CLK+	
36	VCC33	P	Main power voltage source input 3.3V	3.3V
37	CLK REQ	I/O	PCIE clk request	1.8V or 3.3V
38	BT_DIS_N	I	Enable pin for Bluetooth device Default ON: pull high; OFF: pull low	VDDIO
39	GND	—	Ground connections	
40	UART_TXD	O	Bluetooth UART interface	VDDIO
41	UART_RXD	I	Bluetooth UART interface	VDDIO
42	UART_RTS	O	Bluetooth UART interface	VDDIO
43	UART_CTS	I	Bluetooth UART interface	VDDIO
44	HSIN	I	PCIE RX-	
45	HSIP	I	PCIE RX+	
46	HS0N	O	PCIE TX-	
47	HS0P	O	PCIE TX+	
48	RF_BT	I/O	BT antenna (optional if 3 ant type) 2 ant type NC this pin	
49	HOST_WAKE_BT	I	HOST wake-up Bluetooth device	VDDIO
50	BT_WAKE_HOST	O	Bluetooth device to wake-up HOST	VDDIO

P:POWER I:INPUT O:OUTPUT VDDIO:1.8V or 3.3V

7. Electrical Specifications

7.1 Power Supply DC Characteristics

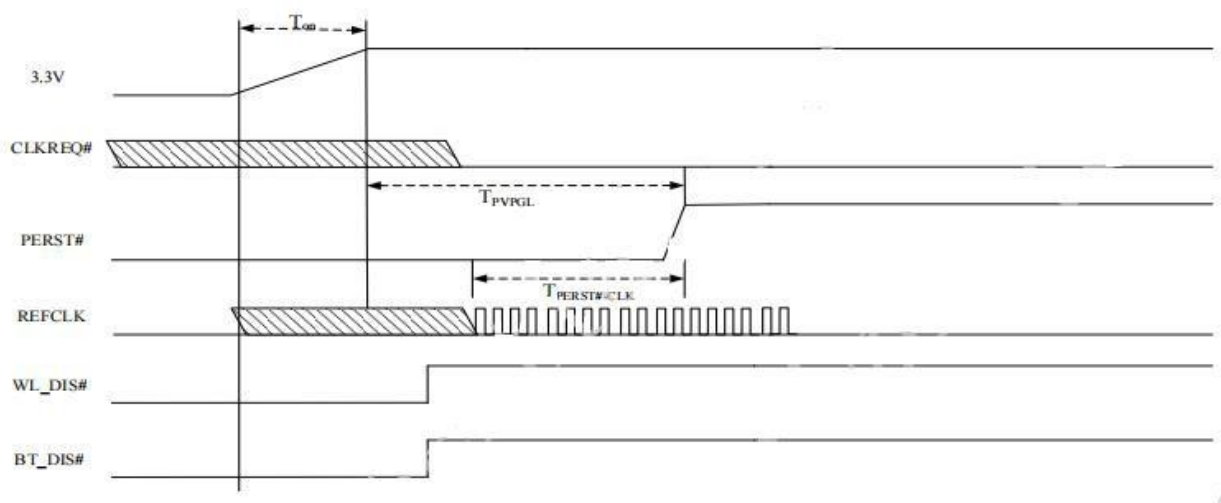
	MIN	TYP	MAX	Unit
Operating Temperature	0	25	70	deg.C
VCC33	3.0	3.3	3.6	V
VDDIO (3.3V)	3.0	3.3	3.6	V
VDDIO (1.8V)	1.7	1.8	3.6	V

7.2 Power Consumption

Power Consumption		VCC33 = 3.3V(Unit:mA)
	5G TX (HE80 11ax)	750
	5G RX (HE80 11ax)	295
	5G TX (VHT80 11ac)	765
	5G RX (VHT80 11ac)	285
	2.4G TX (HE40 11ax)	600
	2.4G RX(HE40 11ax)	235
	2.4G TX (HT40 11n)	605
	2.4G RX (HT40 11n)	225
	2.4G TX (OFDM 54M)	515
	2.4G RX (OFDM 54M)	235

7.3 Interface Circuit time series

7.3.1 PCIe bus during power on sequence



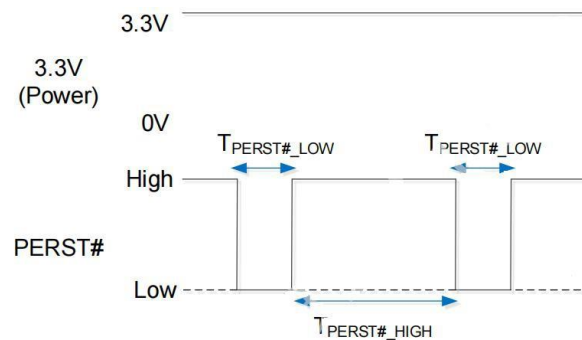
T_{on} : the main power ramp up duration

T_{PVPG_L} : power valid to PERST# input inactive

$T_{PERST\#_CLK}$: reference clock stable before PERST# inactive

Symbol	Unit	Min	Typical	Max
T_{on}	ms	0.5	1.5	5
T_{PVPGL}	ms	Implementation specific; recommended 50ms		
$T_{PERST\#-CLK}$	us	100	--	--

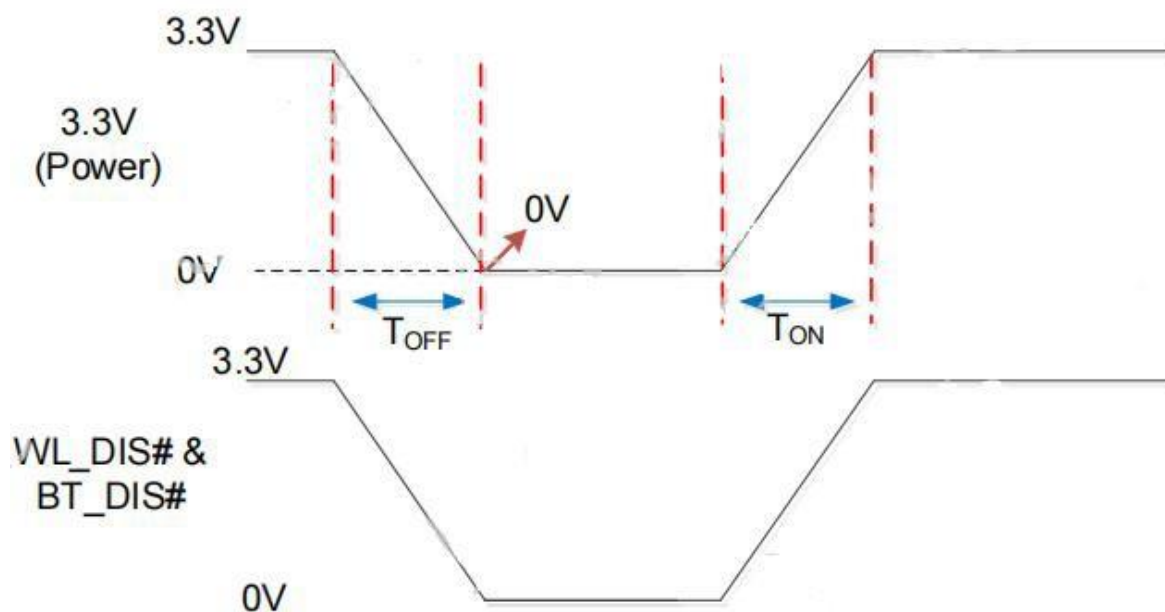
7.3.2 PCIe PERST# Timing sequence



PCIe PERST# Timing Parameters

	Min	Typical	Max	Unit	Description
$T_{PERST\#_LOW}$	6	10	X	ms	PERST# low duration
$T_{PERST\#_HIGH}$	400	500	X	ms	PERST# high duration

7.3.3 power off sequence

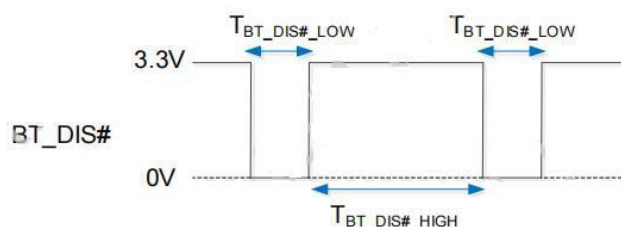


Power Off Timing Parameters

Symbol	Min.	Typical	Max.	Unit	Description
T _{OFF}	1.5	--	--	ms	Measure point start on 100% Measure point end on 0% (must be 0V)
T _{ON}	0.5	1.5	5	ms	Measure point start on 0% (must be 0V) Measure point end on 100%

Note: If BT_DIS# can't connect to the same power source with 3.3V, it need to be de-asserted before PERST# with 100ms in power on sequence.

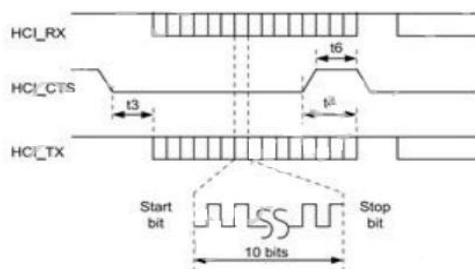
7.3.4 BT_DIS Timing sequence



	Min.	Typical	Max.	Unit	Description
BT_DIS#_LOW	200	--	--	ms	BT_DIS# low duration
BT_DIS#_HIGH	500	--	--	ms	BT_DIS# high duration

7.3.5 UART interface timing

The interface includes four signals, TXD/RXD/CTS. Flow control between the host and the device is byte-wise by hardware. When the UART_CTS signal is set high, the device stops transmitting on the interface. If HCI_CTS is set high in the middle of transmitting a byte, the device finishes transmitting the byte and stops the transmission.



UART Timing Diagram

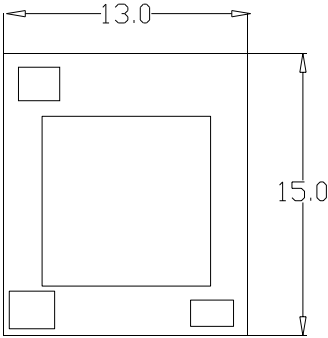
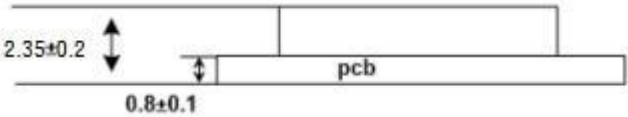
UART Timing Characteristics

Parameter	Condition	Symbol	Min.	Typ	Max.	Unit
Baud rate			115.2		3000	Kbps
Baud rate accuracy per	Receive/Transmit		-3		3	%
CTS low to TX_DATA on		T3	0	2		ns
CTS high to TX_DATA off	Hardware flow	T4			1	byte
CTS High Pulse Width		T6	1			bit

* Note : HCI packet means HCI command(256 bytes), HCI event(256 bytes), ACL(1024 bytes), SCO(256 bytes)

8. Size reference

8.1 Module Picture

L x W : 15 x 13 (+0.3/-0.1) mm Pin1 mark ● 	
With shielding H: 2.35 (±0.2) mm No shielding H: 1.8 (±0.2) mm	
Weight	With shielding 0.93g No shielding 0.71g

8.2 Label

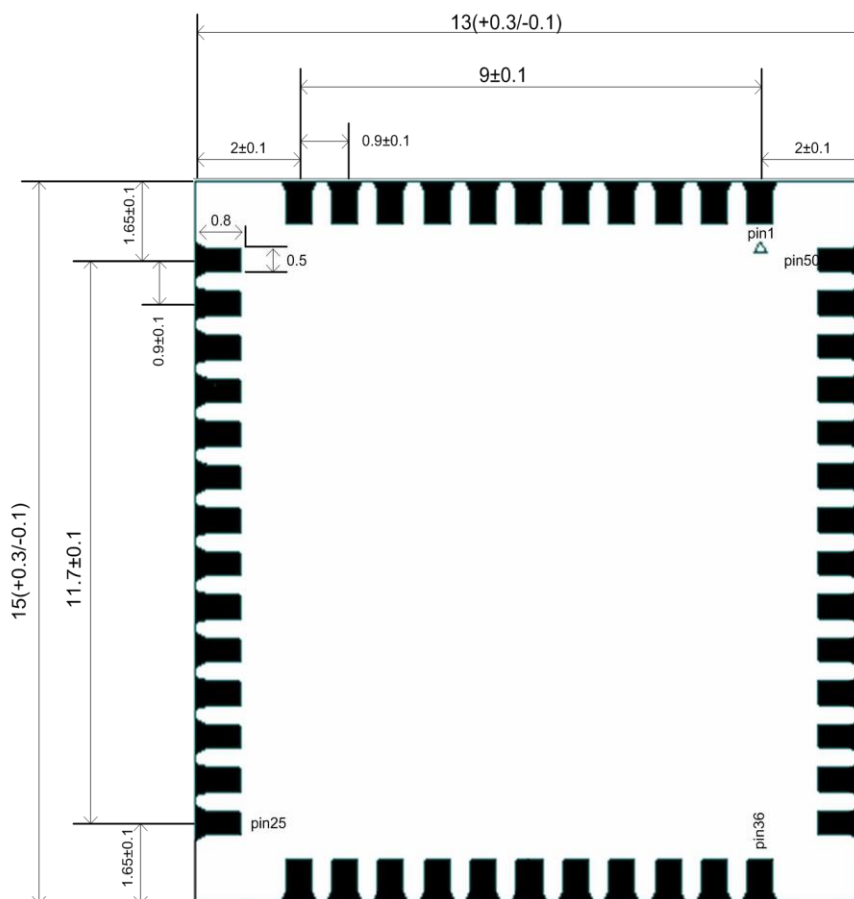


8.3 List of certified information

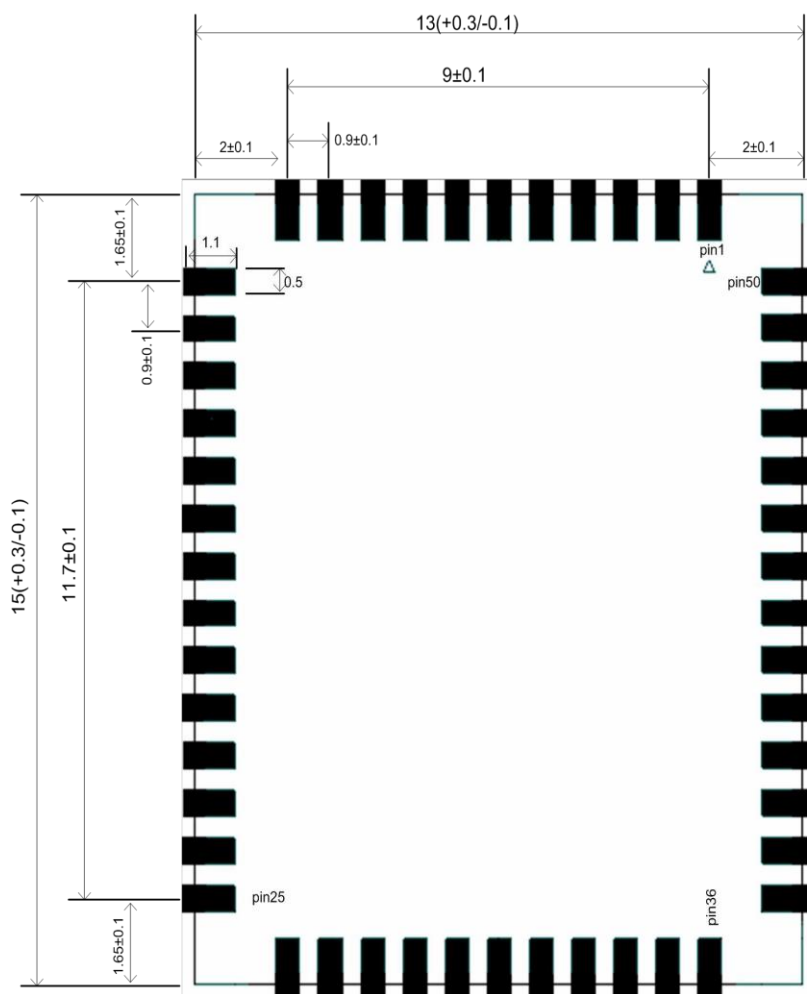
Certification project	Certificate number
SRRC	CMIIT ID:2023AP7405(M)
FCC	2AATL-6252B-PR
CE	2129-12-2022-124167
IC	12425A-6252BPR
NCC	TBD
KCC	TBD
TELEC	TBD
Brazil	TBD
Argentina	TBD
Japan	TBD

8.4 Physical Dimensions

<TOP View>



8.5 Layout Recommendation



9. The Key Material List

Item	Part Name	Description	Manufacturer
1	Inductor	0603 2.2UH,±10%,DCR:0.56Ω,560mA	Sunlord,Ceaiya,cenker,TAIYO,Chili sin,INPAQ
2	Inductor	2016,1.0uH,±20%,DCR 0.095Ω, 1.45A	Sunlord,Ceaiya,cenker,TAIYO,Chili sin,INPAQ
3	Diplexer	1608 Dual-band, dual-mode 2.4GHz/5GHz WLAN	Glead, Walsin, ACX, Murata, MAG.LAYERS,TDK,FTR
4	Crystal	2016 40MHz ±10ppm	ECEC, TKD, Hosonic, JWT, TXC
5	Chipset	RTL8852BE-VR-CG	Realtek

6	PCB	13X15x0.8mm,FR4, 6 LAYER, GREEN	XY-PCB,GDKX,Sunlord, SL-PCB,TRULY
7	Shielding	6252B-PRB,shielding,13.5*11.5*1.55mm,T=0.15mm	

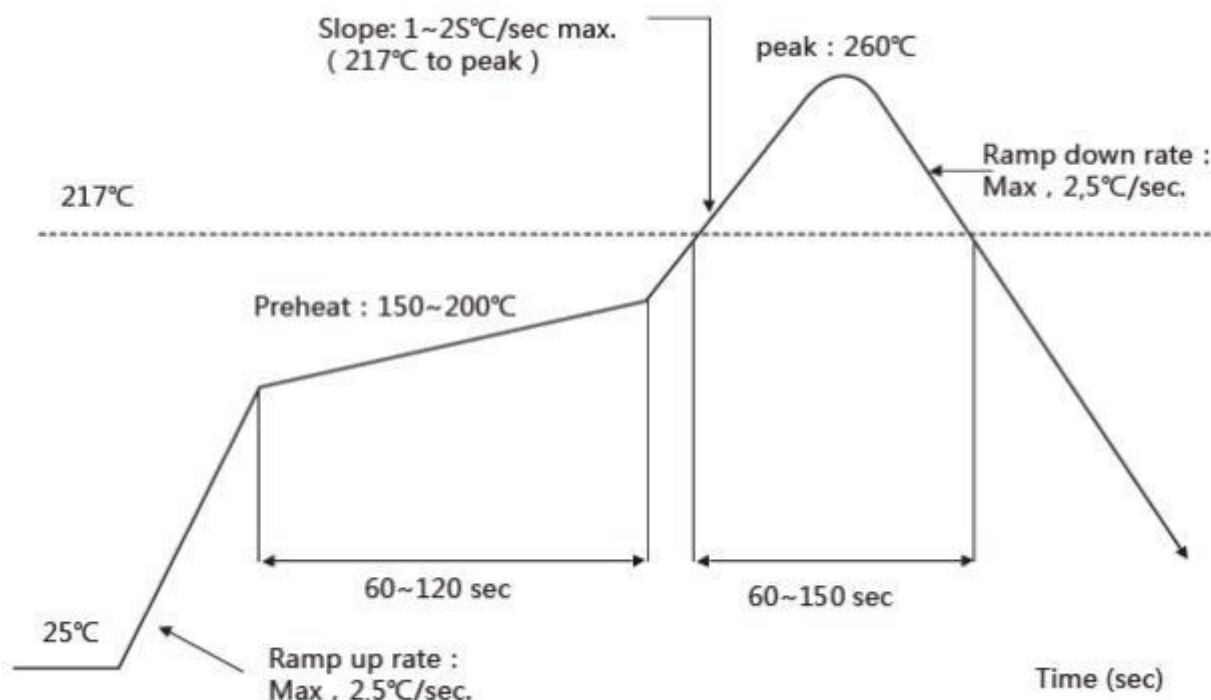
11. Recommended Reflow Profile

Referred to IPC/JEDEC standard.

Peak Temperature: 260 ± 5 °C

Time within 5° C of peak temperature: ≥ 10 s

Number of Times: 2 times



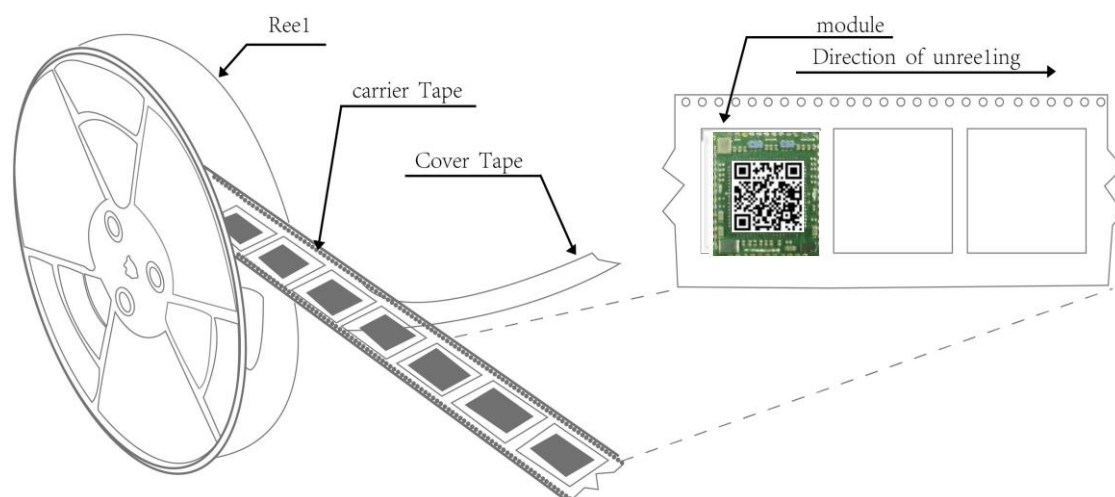
12. RoHS compliance

All hardware components are fully compliant with EU RoHS directive

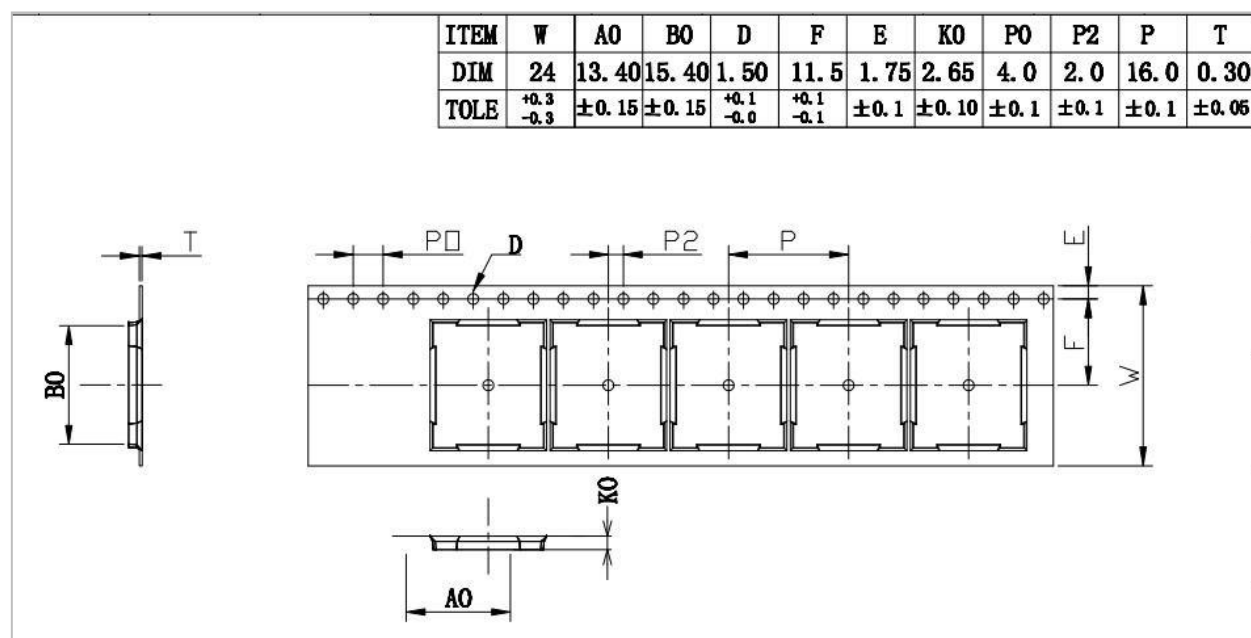
13. Package

13.1 Reel

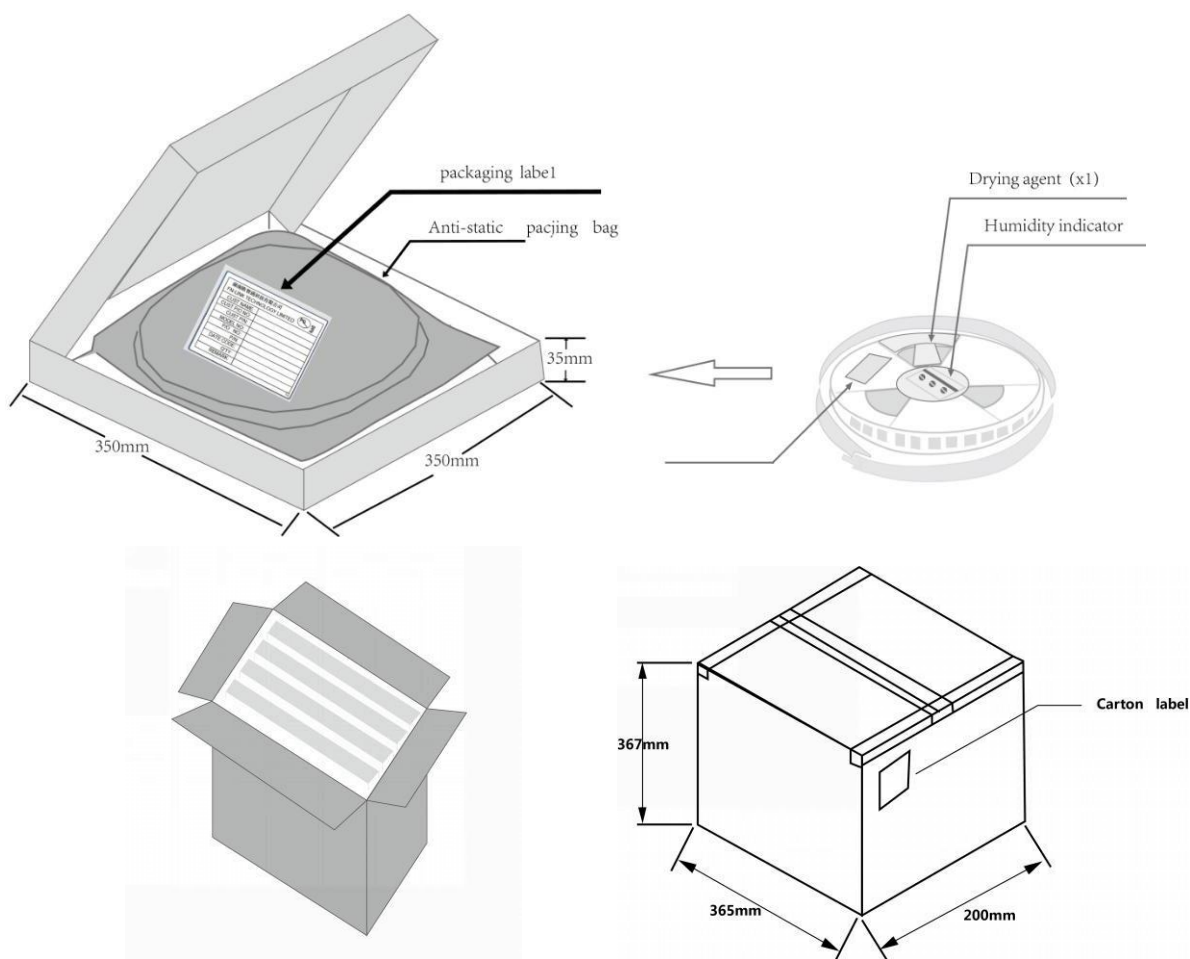
A roll of 1500pcs



13.2 Carrier Tape Detail

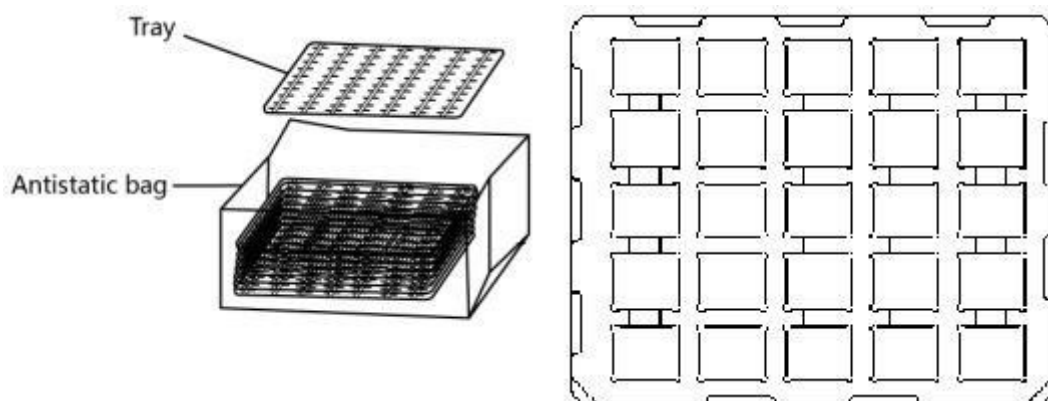


13.3 Packaging Detail



13.4 Tray

Use pallet packaging for less than 300 pieces



14. Moisture sensitivity

The Modules is a Moisture Sensitive Device level 3, in according with standard IPC/JEDEC J-STD-020, take care

all the relatives requirements for using this kind of components.

Moreover, the customer has to take care of the following conditions:

- a) Calculated shelf life in sealed bag: 12 months at <40°C and <90% relative humidity (RH)
- b) Environmental condition during the production: 30°C / 60% RH according to IPC/JEDEC J-STD-033A paragraph 5
- c) The maximum time between the opening of the sealed bag and the reflow process must be 168 hours if condition
- d) “IPC/JEDEC J-STD-033A paragraph 5.2” is respected
- e) Baking is required if conditions b) or c) are not respected
- f) Baking is required if the humidity indicator inside the bag indicates 10% RH or more

FCC Caution:

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

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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

Note: 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.

FCC 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.

Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual v01r01**2.2 List of applicable FCC rules**

CFR 47 FCC PART 15 SUBPART C&E has been investigated. It is applicable to the modular.

2.3 Specific operational use conditions

This module is stand-alone modular. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system.

2.4 Limited module procedures

Not applicable

2.5 Trace antenna designs

Not applicable

2.6 RF exposure considerations

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm from your body.

2.7 Antennas

This radio transmitter FCC ID: 2AATL-6252B-PR has been approved by Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

No.	Antenna Type	Antenna Gain	Impedance	Frequency Range
1	FPC	2.4G Wi-Fi:2.75dBi 5G Wi-Fi:1.43dBi	50Ω	2400-2500MHz 5150-5850MHz
2	FPC	BT/2.4G Wi-Fi:3.08dBi 5G Wi-Fi:3.2dBi	50Ω	2400-2500MHz 5150-5850MHz

2.8 Label and compliance information

The final end product must be labeled in a visible area with the following" Contains FCC ID: 2AATL-6252B-PR"

2.9 Information on test modes and additional testing requirements

Host manufacturer is strongly recommended to confirm compliance with FCC requirements for the transmitter when the module is installed in the host.

2.10 Additional testing, Part 15 Subpart B disclaimer

Host manufacturer is responsible for compliance of the host system with module installed with all other applicable requirements for the system such as Part 15 B

ISED Warning:

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.

Operation of 5250-5350 MHz is restricted to indoor use only.

This device complies with Innovation, Science, and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

L'appareil destiné à fonctionner dans la bande 5150–5250 MHz est uniquement destiné à une utilisation en intérieur afin de réduire le risque d'interférence nuisible aux systèmes mobiles par satellite utilisant le même canal.

Le fonctionnement de la bande 5250-5350 MHz est limité à une utilisation en intérieur uniquement.

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, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device is compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance. The minimum distance from body to use the device is 20cm.

Le présent appareil est conforme Après examen de ce matériel aux conformité ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquérir les informations correspondantes. La distance minimale du corps à utiliser le dispositif est de 20cm.

This Class B digital apparatus complies with Canadian ICES-003.”

Cet appareil numérique de classe b est conforme à la norme nmb-003 du canada.

This device is intended only for OEM integrators under the following condition: The transmitter module may not be co-located with any other transmitter or antenna. As long as the condition above is met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

Cet appareil est conçu uniquement pour les intégrateurs OEM dans les conditions suivantes:

Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne. Tant que les 1 condition ci-dessus sont remplies, des essais supplémentaires sur l'émetteur ne seront pas nécessaires. Toutefois, l'intégrateur OEM est toujours responsable des essais sur son produit final pour toutes exigences de conformité supplémentaires requis pour ce module installé.

Important Note:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the ISED 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 Canada authorization.

Any company of the host device which install this modular with limit modular approval should perform the test of radiated emission and spurious emission according to RSS-247 and RSS-Gen requirement, only if the test result comply with RSS-247 and RSS-Gen requirement, then the host can be sold legally.

Note Importante:

Dans le cas où ces conditions ne peuvent être satisfaites (par exemple pour certaines configurations d'ordinateur portable ou de certaines co-localisation avec un autre émetteur), l'autorisation du Canada n'est plus considéré comme valide et l'ISED ne peut pas être utilisé sur le produit final. Dans ces circonstances, l'intégrateur OEM sera chargé de réévaluer le produit final (y compris l'émetteur) et l'obtention d'une autorisation distincte au Canada. toute entreprise de l'hôte qui installent ce dispositif modulaire avec limite approbation devrait effectuer l'essai des modules et des rayonnements non essentiels des émissions rayonnées selon rss-247 et le cnr - gen, seulement si le résultat d'essai conforme rss-247 et le cnr - gen, puis l'hôte peut être vendu légalement.

End Product Labeling

The final end product must be labeled in a visible area with the following:

Contains IC: 12425A-6252BPR.

Plaque signalétique du produit final

Le produit final doit être étiqueté dans un endroit visible avec l'inscription suivante: Contient des IC: 12425A-6252BPR.

Manual Information to the End User

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.

Manuel d'information à l'utilisateur final

L'intégrateur OEM doit être conscient de ne pas fournir des informations à l'utilisateur final quant à la façon d'installer ou de supprimer ce module RF dans le manuel de l'utilisateur du produit final qui intègre ce module.

Le manuel de l'utilisateur final doit inclure toutes les informations réglementaires requises et avertissements comme indiqué dans ce manuel.

This radio transmitter [IC: 12425A-6252BPR] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below:

Cet émetteur radio [IC: 12425A-6252BPR] a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous:

No.	Antenna Type	Antenna Gain	Impedance	Frequency Range
1	FPC	2.4G Wi-Fi:2.75dBi 5G Wi-Fi:1.43dBi	50Ω	2400-2500MHz 5150-5850MHz
2	FPC	BT/2.4G Wi-Fi:3.08dBi 5G Wi-Fi:3.2dBi	50Ω	2400-2500MHz 5150-5850MHz

Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement interdits pour l'utilisation avec cet appareil.