

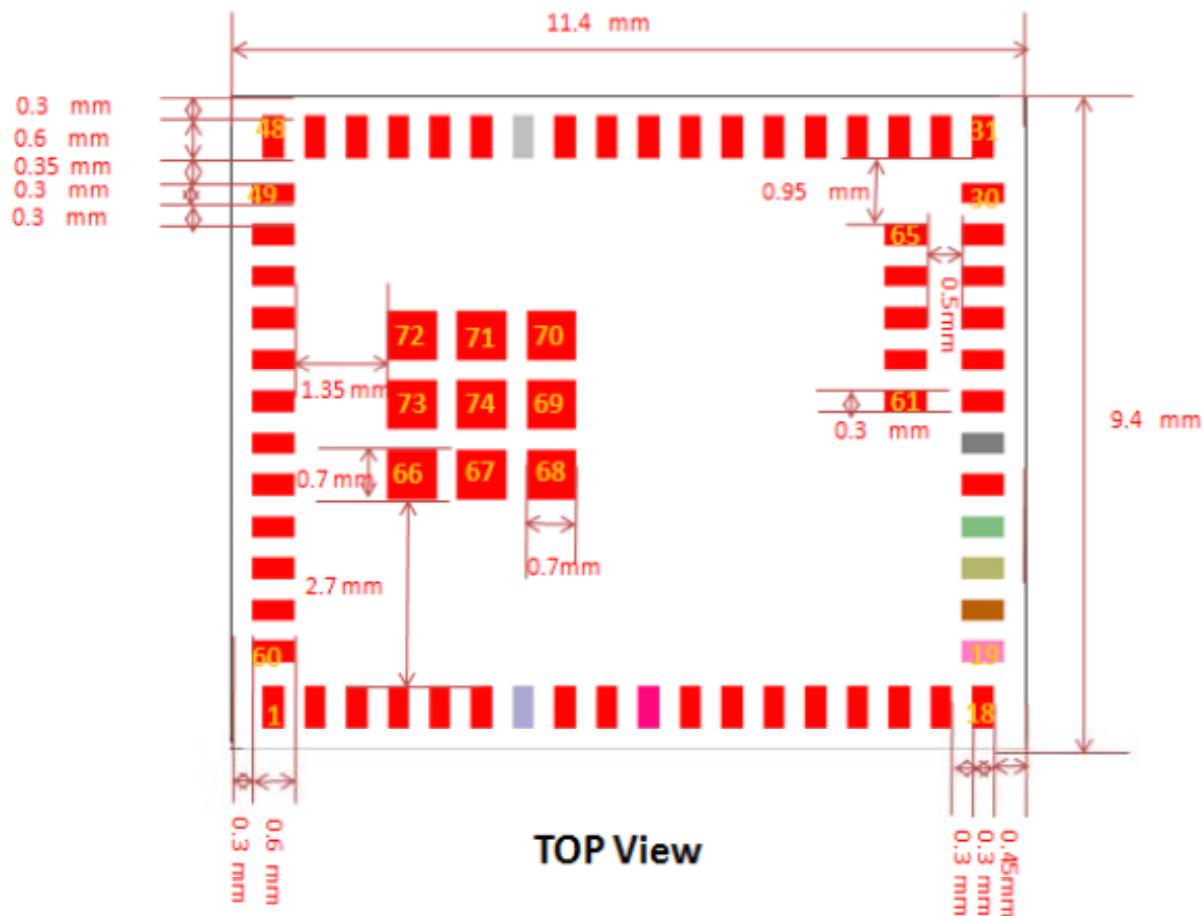
## **DWWB005 Installation Manual**

For OEM integration only – device cannot be sold to general public.  
Therefore we will ask OEM to include the following statements required  
by FCC on the product and in the Installation manual Notice.

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## 1.Land Pattern(Recommended Unit:mm)



## 2. Supply Voltage

	Typ.[V]	Min.[V]	Max.[V]
VBAT	3.6	3.0	4.2
VIO	1.8	1.65	1.92

Please supply a stabilized power supply voltage through the VBAT And VIO.

### 3. Pin configuration

No:	Module Pin Name:	No:	Module Pin Name:	No:	Module Pin Name:	No:	Module Pin Name:
1	GND0	21	SPI_CSX	41	BT_WAKEUP	61	FM_SCL
2	5G_ANT	22	SPI_DIN	42	UART_TX	62	FM_IRQ
3	GND1	23	SPI_CLK	43	UART_CTS	63	FM_SDA
4	HOST_WAKE	24	SPI_DOUT	44	UART_RX	64	UART_DBG
5	CLK_REQ	25	GND5	45	UART_RTS	65	BT_UART_DBG
6	GND2	26	SLEEP_CLK	46	GND12	66	GND18
7	1V8_PRE_REG	27	GND6	47	2.4G_ANT	67	GND19
8	VDD_LDO_IN_CLASS1P5	28	FM_TX_ANT	48	GND13	68	GND20
9	VBAT	29	GND7	49	GND14	69	GND21
10	VIO	30	FM_RX_ANT	50	GND15	70	GND22
11	GND3	31	GND8	51	PCM_SYNC	71	GND23
12	BT_RESETX	32	GND9	52	PCM_CLK	72	GND24
13	WLAN_IRQ	33	FM_AUD_IN_R	53	PCM_OUT	73	GND25
14	FM_EN	34	FM_AUD_IN_L	54	PCM_IN	74	GND26
15	WL_RS232_TX	35	FM_AUD_OUT_R	55	FM_I2S_DO		
16	WL_RS232_RX	36	FM_AUD_OUT_L	56	FM_I2S_DI		
17	WLANENABLE	37	GND10	57	FM_I2S_FSYNC		
18	GND4	38	XTALP	58	FM_I2S_CLK		
19	SDIO_D2	39	XTALM	59	GND16		
20	SDIO_D1	40	GND11	60	GND17		

#### 4. Notice

Please describe the following warning on the final product which contains this module.

Contains Transmitter Mobile FCC ID:PZWDWWB005

or

Contains FCC ID:PZWDWWB005

**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.**

Please describe the following warning to the manual.

**FCC CAUTION**

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

**This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.**

When installing it in a portable equipment

**The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. [ Model Name ] has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65.**

Note)

Portable equipment : Equipment for which the spaces between human body and antenna are used within 20cm.

Mobile equipment : Equipment used at position in which the spaces between human body and antenna exceeded 20cm.

## **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 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 Caution: 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.

### **Radiation Exposure Statement:**

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

### **This device is intended only for OEM integrators under the following conditions:**

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

- 2) Module approval valid only when the module is installed in the tested host or compatible series of host which have similar RF exposure characteristic with equal or larger antenna separation distance.

As long as **2** conditions above are 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

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not 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 authorization.

#### **End Product Labeling**

The product can be kept as far as possible from the user body or set the device to lower output power if such function is available. The final end product must be labeled in a visible area with the following: "Contains FCC ID: PZWDWWB005". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

#### **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.

### **Industry Canada statement:**

This device complies with RSS-247 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

### **Radiation Exposure Statement:**

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

**Déclaration d'exposition aux radiations:** Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

### **This device is intended only for OEM integrators under the following conditions: (For module device use)**

- 1) The transmitter module may not be co-located with any other transmitter or antenna.
- 2) Module approval valid only when the module is installed in the tested host or compatible series of host which have similar RF exposure characteristic with equal or larger antenna separation distance.

As long as **2** conditions above are 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: (Pour utilisation de dispositif module)**

- 1)Le module émetteur peut ne pas être coimplanté avec un autre émetteur ou antenne.
- 2) Approbation du Module valable que lorsque le module est installé dans l'hôte testé ou de la serie de l'hote compatible qui ont même caractéristique de l'exposition aux RF avec la distance égale ou supérieure antenne.

Tant que les **2** conditions 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 can not be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID can not 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.

**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'ID IC 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.

**End Product Labeling**

The product can be kept as far as possible from the user body or set the device to lower output power if such function is available. The final end product must be labeled in a visible area with the following: "Contains IC: 1551C-DWWB005".

**Plaque signalétique du produit final**

L'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible. Le produit final doit être étiqueté dans un endroit visible avec l'inscription suivante: "Contient des IC: 1551C-DWWB005".

**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.