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SM-GQ User Manual

1. Equipment：

1. SM-GQ

2. 24V DC Power

3. Speaker SM-T-1200

2. Product Description：

SM-GQ is a white noise generator, which can support up to eight channels of output. The sound, frequency and schedule can be set through Bluetooth control.

3. Product specifications：

SOUNDMASK®

PRODUCT SPECIFICATION SHEET

SOUNDMASK GQ

MODEL SM-GQ-2/4/8

FEATURES

The SM-GQ is single rack mounted 2, 4 or 8 channel digital sound generator, equalizer, zone distributor and amplifier, with an output of 50 watts RMS per channel @ 8 ohms. It features individual channel level control for each channel via the Android App and stereo banana jack outputs to connect the Soundmask speakers (SM-T-1200 series) which daisy chain in rows of up to 100 speakers per channel.

Being digital, this unit is extremely efficient and delivers uncoloured signal direct to the transducer. The SM-GQ-2 is capable of servicing up to 200 speakers (100 per channel), and each channel is its own zone, allowing 2 individual zones per unit (controlled via App). The SM-GQ-4 and SM-GQ-8 are capable of servicing up to 400 and 800 specakers respectively via their 4 and 8 zones, respectively.

The unit connects to mains power via external power supply. A compatible power cord is supplied with the unit. The voltage input is 100-240VAC, 50-60Hz.

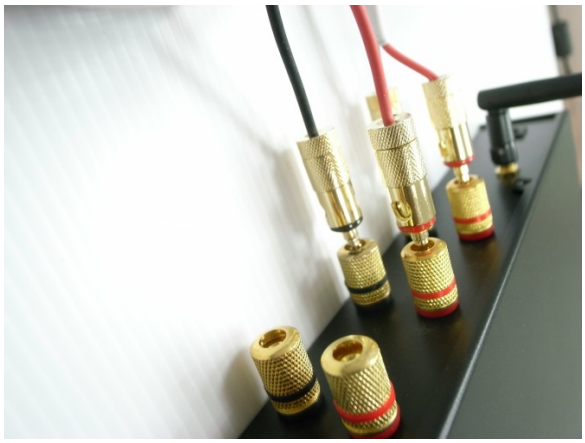
SPECIFICATIONS

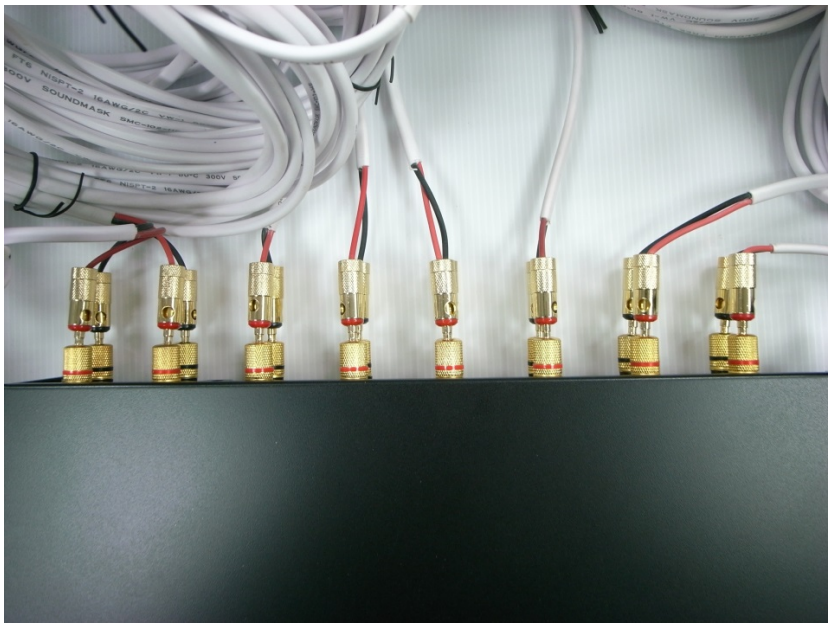
Model	SM-GQ-2, SM-GQ-4, SM-GQ-8
Inclusions	› **Bluetooth®** audio configuration & control via App › Volume control › Multiple audio pre-sets › Onboard 32 band Equaliser › Firmware updates from pen driver › Zone control using the App › LED status indication with integrated (eg, push-button) pairing on front of unit › USB for pen driver › Extra-low voltage › Compliant with IEC 62368-1
Amplifier (per channel)	› PWM oscillator is up to 2.88MHz › 50W RMS into 6ohms with Vcc 24V › 50W RMS into 8ohms with Vcc 28V › 24-28V Vcc Supply Voltage Operation › Full Bridge (BTL) output Amplifier › Integrated Short Circuit Protection › Integrated Thermal shutdown › Start Up De-pop Circuit › Efficiency up to 90% › Frequency response 20Hz-20kHz
LED status indications	› Bluetooth pairing progress › System Operating › Bluetooth paired connection › Fault indication
Application features	› Android operation (iOS capability in future) › Bluetooth pairing › ID protected › Zone configuration › Equaliser adjustment (including presets) › Scheduling (ramp and timer) functionality › Volume control › Send log of input via email
Size	483 x 200 x 44 mm (without antenna), 1960g
Compliance	CE FC
Power supply	External power supply with standard IEC socket and compatible plug for each country.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Soundmask Global is under license. Android is a trademark of Google LLC. iOS® is a registered trademark of Cisco in the US and is used by Apple under license. Other trade marks and trade names are those of their respective owners.

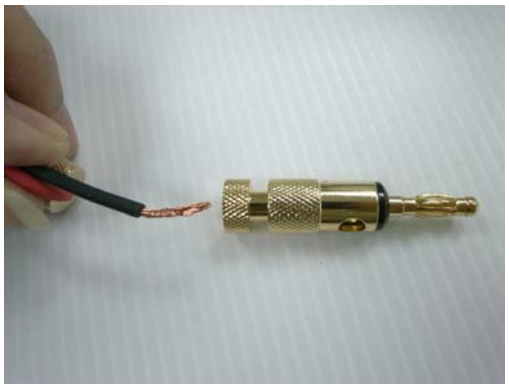
4. Installation Notes：

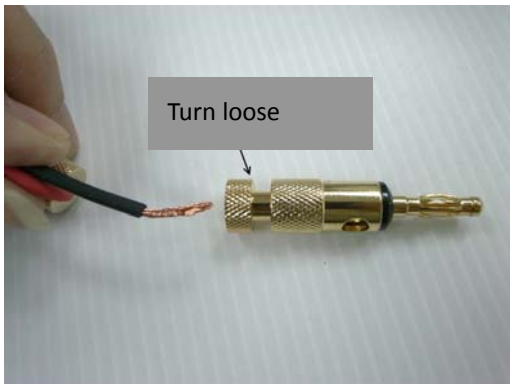
1. Connect 8 speakers to the Audio jack on the back of SM-GQ. Red is connected to red, and black is connected to black.





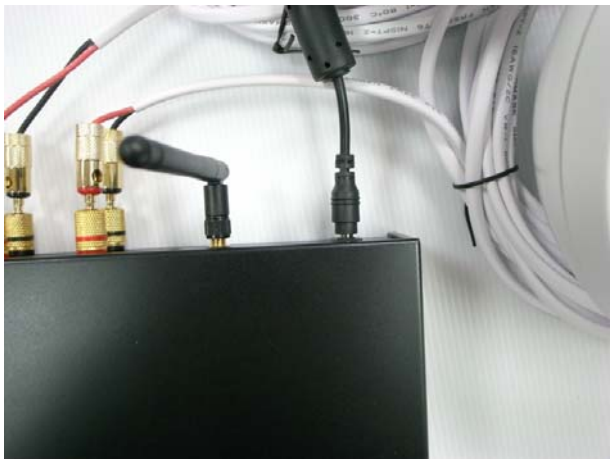
2. If the terminal head of the speaker cable is disconnected from the wire, please loosen the terminal head first, then insert the wire end and then tighten the connector.





5. Operation instructions：

1. Connect SM-GQ to 24V DC Power, check that the System LED (green) is steady on to indicate normal, if the Fault LED (red) flashes or keeps on, it indicates abnormality.



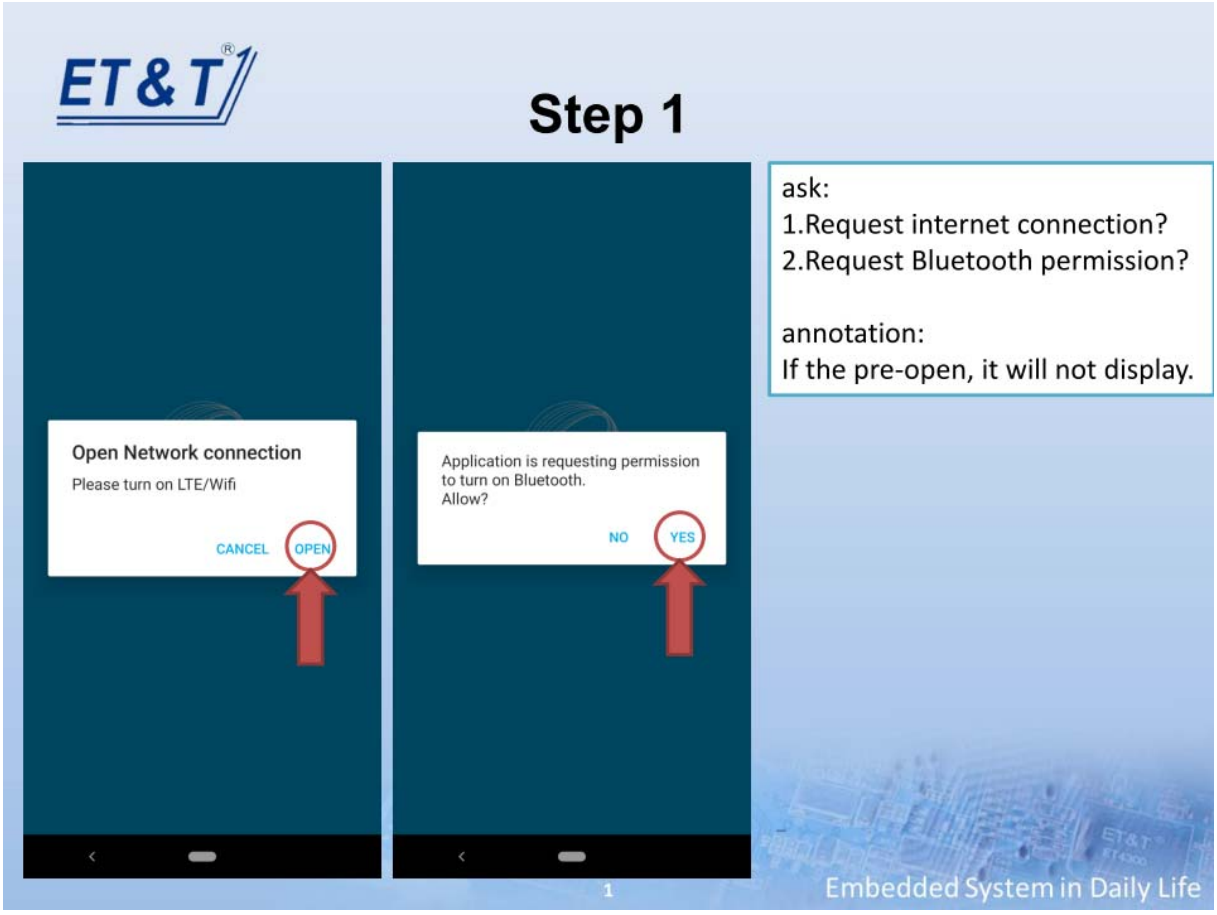
2. If the Bluetooth of the mobile app has not been paired, please keep pressing the pair button until the Bluetooth LED flashes (blue LED) and then release the button to pair the Bluetooth of the mobile app with SM-GQ until the blue LED is constantly on.

Repeat the above actions if abnormal.

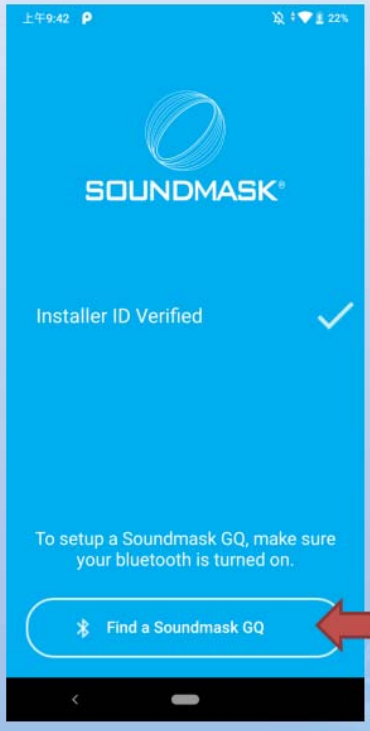
Note: Please refer to the phone App operational SM-GQ_APP operation.

3. After the Bluetooth pairing of the mobile phone App, directly connect to SM-GQ, the blue LED will be steady on, indicating that the SM-GQ is connected and the SM-GQ can be set.

6. APP operation instructions：



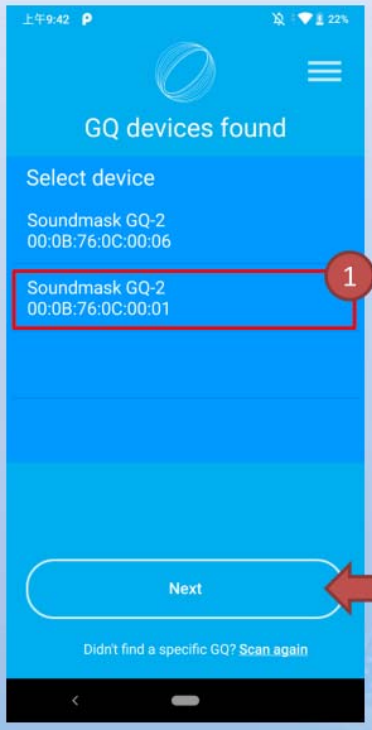
Step 3



Push the button
Start searching, nearby Bluetooth device

annotation:
Search range is about 10M

Step 4



Note for the first pairing:
1. Find the device name to choose one
2. Device button press, until the blue light flashes
3. Press the "Next" button
4. Paired with authorization

After the second pairing, Attention:
1. Find the device name to choose one
2. Device button press, until the blue light flashes (skippable)
3. Press the "Next " button
4. Paired with authorization

Warning exception:

When the pairing is unsuccessful, the solution:
1-1. Re-do the first pairing method
1-2. Go to the Bluetooth menu of the mobile phone, remove the device name that has been paired, and do the first pairing again

Step 5

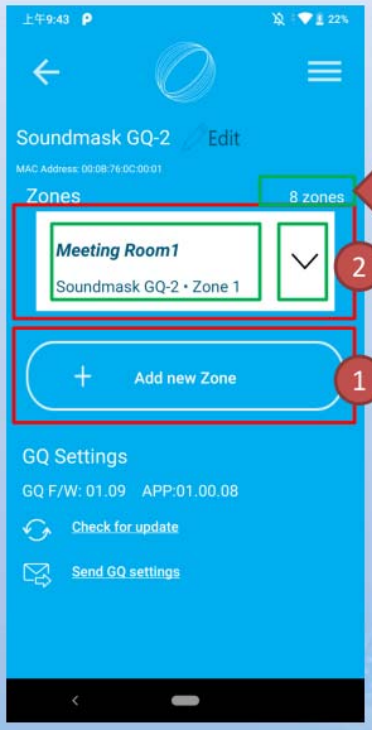
Waiting, about 10~15

Pairing
Authorizing
Resources

Warning abnormal:

When more than 1 minute, several methods are provided:
1-1. Close the APP and restart it
1-2. Power off the device and restart

Step 6

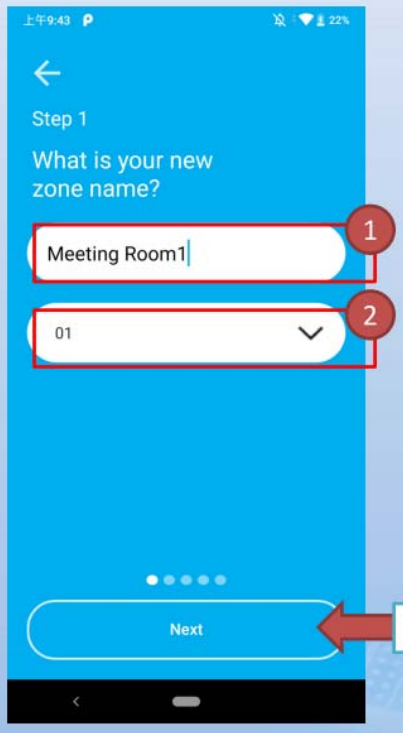


Number of equipment supported

1. Add a zone
   1-1. Click "Add new Zone "

2. Modify a Zone
   2-1. Click the V icon: select Zone
   2-2. Click on the name: Modify Zone

Step 7

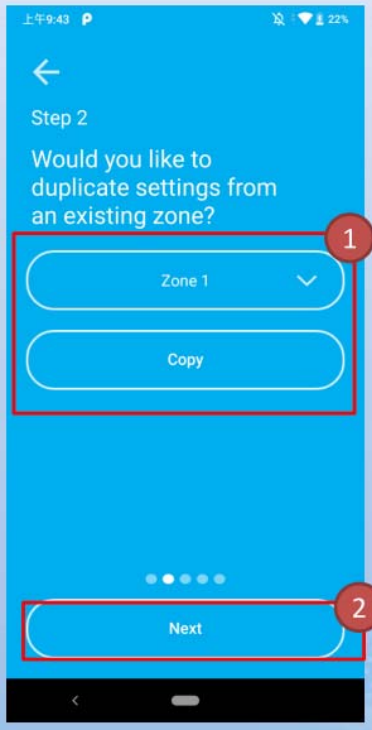


Create a new zone

1. Zone's nickname
2. Select Zone

Press the "Next" button

Step 8

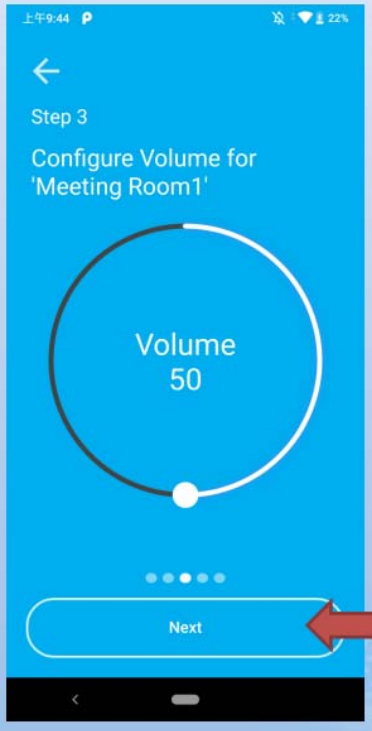


Ask Zone, choose as follows:

1. Zone data
   1-1. Select Zone List
   1-2. Press the "Copy" button
   1-3. Wait, automatically import the next page

2. Use the default value
   2-1. Press the "Next" button
   2-2. Wait, automatically import the next page

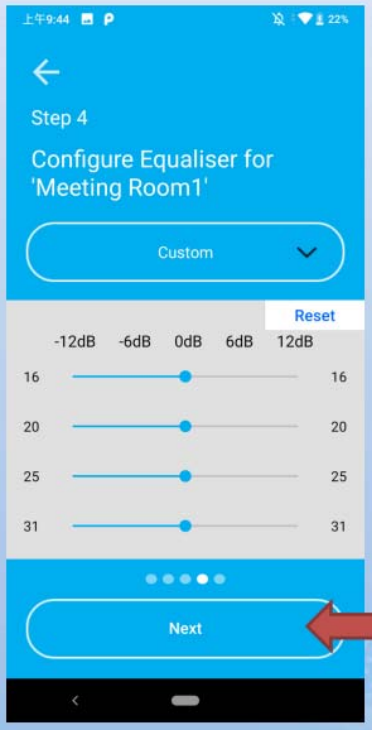
Step 9



Set the volume level

Press the "Next" button

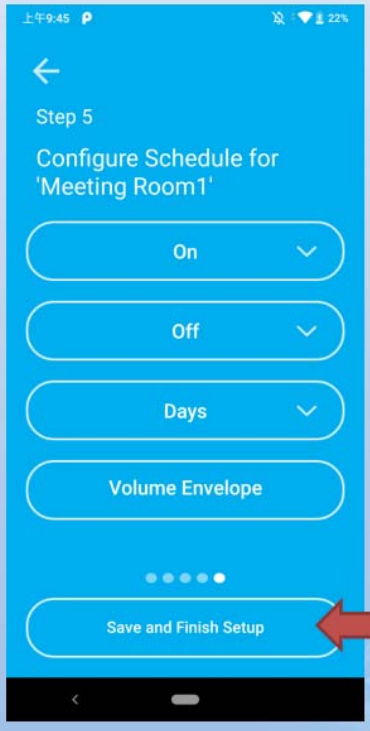
Step 10



Set frequency range

Press the "Next" button

Step 11



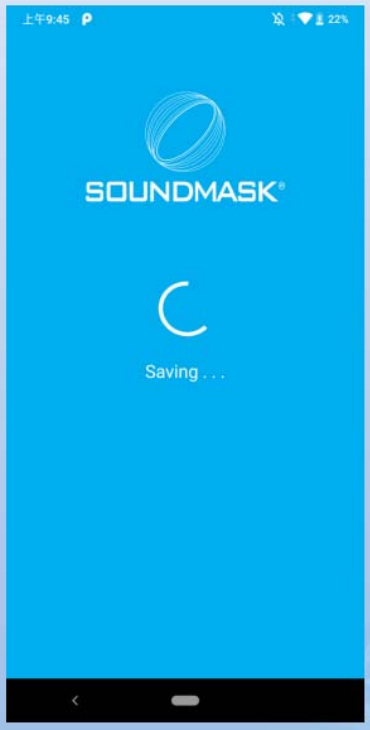
Set schedule (two modes):

1. Setting range mode
   1-1. On: start time
   1-2. Off: End time
   1-3. Days: Week
   1-4. Volume Envelope: take-off and landing time

2. 24-hour mode
   2-1. When the field is not set,
   Press the "Save and Finish Setup" button

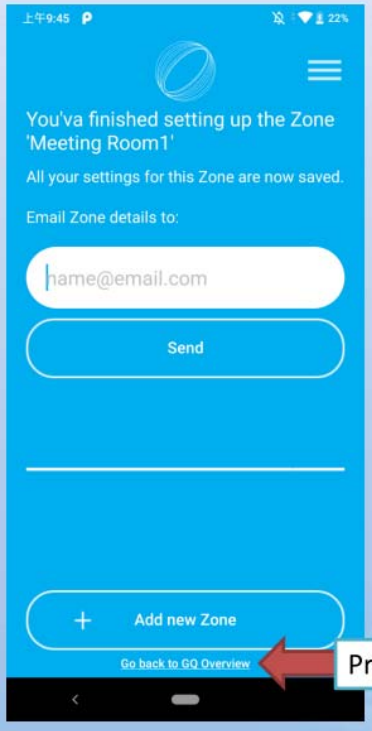
All field settings,
Press the "Save and Finish Setup" button

Step 12



Saving data, please wait.

Step 13



This page shows, Saved.

When you press the "Go back to GQ Overview" button

Go back to step 6

Press the "Go back to GQ Overview" button

7. Statement：

FCC Statement

15.105

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.

KDB447498 D01 v05r02 (P5)

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

15.19

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.

15.21 / KDB784748 D01 v08 (P4)

Caution!

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

Industry Canada Statement----- Radio

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditi ons:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the devi ce.

Le présent appareil est conforme aux CNR d'Industrie 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'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

Exposure:
This device meets the exemption from the routine evaluation limits in section 2.5 of RSS102 and users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

Antenna:
（Ref RSS-Gen, clause 7.1.2, a device with detachable antennas must include additional text regarding antenna gain; this text should be in both English and in French)
This radio transmitter with model: V0104-5A1BBT3 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio with model: V0104-5A1BBT3 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque

type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna List						
Antenna	**Manufacturer**	**Model Name**	**Type**	**Connector**	**Gain(dBi)**	**Note**
1	F TIME Technology Industrial Co., Ltd	V0104-5A1BBT3	Dipole	SMA Male	2	2.4G

8. Caution：

The lightning flash and arrowhead within the triangle is a warning sign alerting you of “dangerous voltage” inside the product

The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product

Caution：

1. To reduce the risk of electric shock, do not remove cover.
2. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
3. To reduce the risk of electric shock, grounding of the center pin of this plug must be maintained.
4. Risk of Explosion if battery is replaced by an incorrect type. Dispose of used Batteries According to the instructions.

WARNING：

1. This product is intended to be operated ONLY from the voltages listed on the back panel or the recommended, or included, power supply of the product.
2. Operation from other voltages other than those indicated may cause irreversible damage to the product and void the products warranty.
3. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer.
4. Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.