

1. Production Introduction

1.1 Main Features:

1. Plug & Play: installed via original CD changer port, easy and fast, perfectly integrated with the car.
2. Wireless A2DP Playback: easily streaming music of Bluetooth devices into factory car stereo system.
3. Hi-fi Sound Quality: Connected to car stereo via wire harness, no interference and no loss of sound quality, rivaling original CD sound.
4. Allow you to easily have popular configuration of advanced car stereo, is the best choice for safe driving and enjoying digital music.

1.2 Note

1. Doesn't support hands-free phone call(HFP): It doesn't supports answer/hang up etc. Via car radio buttons and steering wheel buttons
2. Doesn't support Bluetooth AVRCP Control: Prev/Next Track, Pause/Play, Fast forward/backward via car radio buttons or steering wheel buttons.

2. Installation Guide

Before installation, Please read this manual carefully.

2.1 Installation Preparation

1. This product operates on a vehicle with 12 volt or 5 volt DC negative ground system. Do not use it on other voltage system.

2. This product only fits OEM or aftermarket car stereo with CD changer port and different solutions of Bluetooth adapter would be adopted according to different brands of vehicles or different car radios.
3. Make sure car stereo is powered off before installation. Otherwise the car stereo may be damaged. It is suggested to install it a car dealer shop or professional car stereo store.
4. Usually, the car stereo needs to be removed so as to plug Bluetooth kit main connector into CD changer port on radio pack. For some car models, Bluetooth kit can be installed in glove box or trunk where external CD changer port is located.
5. Please read the car stereo wiring diagram carefully before installation (normally on the top side of car stereo) . Check and confirm where are the following ports on back of the stereo: **CD changer port**, **B+/Ub+/12V ACC port** (different car stereos has different names. such as: BAT, Bup+,B-U,MEM +12, KL.30) and **GND port**.

2.2 Installation Steps

1. Turn off car engine and remove key from ignition, if car radio uses a security code, make sure that you have the code before unplugging the radio.
2. Unmount the radio from the dash in order to get access to the back side of the radio, and find CD Changer port at the back of the radio. For details of unmount, please refer to car user manual or car stereo manual, or ask professional staff to unmount the radio.
3. Connect wire harness to car stereo radio module unit in advance. Be sure to make a firm connection. Then attach the wire harness connector to the back of stereo to the CD changer port.
4. For some car models, connect the red wire to B+/Ub+/12V ACC port (different car stereos has different names. such as: BAT, Bup+,B-U,MEM +12, KL.30) or other correct ACC power or 5 / 12V battery power. Connect the black wire to GND port of head unit power module unit.
5. Turn on the car and power on car Head Unit, press CD (or Disc / Mode / CDC / SOURCE / AUX) button for once or twice to switch to music play mode.
6. Turn on the Bluetooth function of mobile phone, search and pair with Bluetooth device named “JIERUIBT”, Mobile phone will be able to connect to

BTA after paired successfully. Test with mobile phone to confirm whether Bluetooth music work normally.

7. After successful test, re-assemble the radio, and put wire harness and module unit box in proper place (glove box, storage box, etc.), fasten screws between module unit and wire harness. Put back car head unit into original position. Now the installation is finished.

2.3 Important Installation Notes

1. As to some vehicles with external CD Changer, which occupies original CD changer port, Parallel Harness is needed to keep the use of original CD changer (For some models only). Installation refers to former diagram.
2. As for Audi factory radio of mini ISO 8 pin, its CDC connector is 20-pin block connector, in order to install our Bluetooth kit, it requires to cut the 8-pin part or connect with special Audi 20-pin adapter cable.
3. As for Clarion protocol radios, such as some Subaru radio and Suzuki radio, it requires to totally unplug the wire harness from car power before installation. Moreover, it is easy to plug connector in the opposite direction on Clarion radios, which causes short circuit. Make sure the connector is plugged in correct direction.
4. As for installation on CAN-Bus radios of Peugeot/Citroen, Renault, Ford (new) and Mazda (new) and Opel, it is required to unplug the radio from the power before installation. Otherwise, Bluetooth kit might not work properly or the radio might be damaged. Regarding Peugeot/Citroen without pre-installed CD Changer, to enable Bluetooth kit to work, the CD Changer function must be activated by professional tools. Please enquire the Peugeot/Citroen dealer on how to activate the CD Changer function.
5. As per BMW radios with CD Changer, the CD Changer must be completely disconnected before installation (The 3-pin and the 6-pin connector, both are located in the trunk, must be disconnected), otherwise Bluetooth kit will not be recognized. Besides, if the BMW radios are with DSP, extra DSP kit and specific Bluetooth kit would be used.

3 Applicable Car Models

Toyota Honda Volkswagen Audi Benz Suzuki Nissan Porsche
Ford Fiat Acura BMW Volvo Mazda Skoda Peugeot Renault
Citroen Opel,etc

This product only needs to have AUX interface or the original
Car CD player can be used with AUX interface.

(Please consult or confirm that you have an AUX interface
before purchasing)

1. Not compatible with stereos that have 6 CD Player built into the stereo
2. Not compatible with the "blue & me " Bluetooth audio streaming feature
3. Also many devices from 2007 in connection with the Bluetooth model KCE-400BT.

4 Specification

Voltage Input : 4.5V ~14.6V DC

Operational Current : 600mA

Standby Current : 20mA

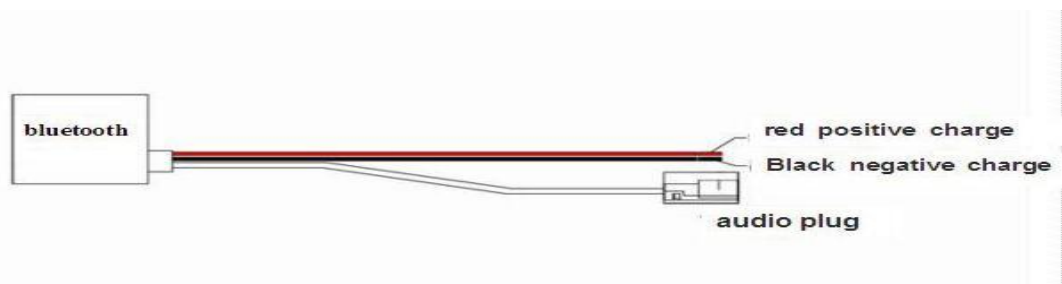
Operating Temperature: -35°C~+75°C

DAC Resolution : 20bit

Total Harmonic Distortion : 0.05%

SN Ratio : 90dB

Frequency Response : 20HZ-20KHZ



5 Warranty

All the items are guaranteed against manufacturing defects for a period of
twelve months from purchase.

Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual vO1

1.2 List of applicable FCC rules

FCC Part 15 Subpart C 15.249& 15.209

1.3 Specific operational use conditions

The module is a Bluetooth module

Operation Frequency: 2402-2480MHz

Number of Channel: 79

Modulation: GFSK

Type: PCB Antenna

Gain: 1 dBi Max.

The module can be used for mobile or portable applications with a maximum 1.0dBi antenna. The host manufacturer installing this module into their product must ensure that the final composite product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operation. The host manufacturer 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 shown in this manual.

1.4 Limited module procedures

The module is a limited module. The host integrator installing the module into their product, a Class II Permissive Change (C2PC) must be filed with the FCC, or a new FCC authorization must be applied.

1.5 Trace antenna designs

Not applicable. The module has its own antenna, and doesn't need a host's printed board microstrip trace antenna etc.

1.6 RF exposure considerations

The module must be installed in the host equipment such that at least is maintained between the antenna and users' body; and if RF exposure statement or module layout is changed, then the host product manufacturer required to take responsibility of the module through a change in FCC ID or new application. The FCC ID of the module cannot be used on the final product. In these circumstances, the host manufacturer will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

1.7 Antennas

Antenna Specification are as follows:

Type: PCB Antenna

Gain: 1 dBi

This device is intended only for host manufacturers under the following conditions:

The transmitter module may not be co-located with any other transmitter or antenna;

The module shall be only used with the internal antenna(s) that has been originally tested and certified with this module. The antenna must be either permanently attached or employ a 'unique' antenna coupler.

As long as the conditions above are met, further transmitter test will not be required. However, the host manufacturer is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

2.8 Label and compliance information

Host product manufacturers need to provide a physical or e-label stating "Contains FCC ID: **2A6SS-JIERUIBT**" with their finished product.

2.9 Information on test modes and additional testing requirements

Operation Frequency: 2402-2480MHz

Number of Channel: 79

Modulation: GFSK

Host manufacturer must perform test of radiated & conducted emission and spurious emission, etc according to the actual test modes for a stand-alone modular transmitter in a host, as well as for multiple simultaneously transmitting modules or other transmitters in a host product.

Only when all the test results of test modes comply with FCC requirements, then the end product can be sold legally.

2.10 Additional testing, Part 15 Subpart B disclaimer

The modular transmitter is only FCC authorized for FCC Part 15 Subpart C 15.249& 15.209 and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuitry), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

Federal Communication Commission Statement (FCC, U.S.)

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.

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.

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.

IMPORTANT NOTES

Co-location warning:

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

OEM integration instructions:

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

The transmitter module may not be co-located with any other transmitter or antenna. The module shall be only used with the external antenna(s) that has been originally tested and certified with this module.

As long as the 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 (for example, digital device emissions, PC peripheral requirements, etc.).

Validity of using the module certification:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module 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 authorization.

End product labeling:

The final end product must be labeled in a visible area with the following: "Contains Transmitter Module [FCC ID: 2A6SS-JIERUIBT](#)."

Information that must be placed in the end user manual:

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 shown in this manual.