

Module instruction manual

Product Introduction:

BM3.0 Bluetooth circuit board (module) is installed in the massage chair or other massagers, through the DC24V connected to the device to power the circuit board, and connected to the speaker (speaker or power amplifier), you can achieve wireless audio transmission. Enable the Bluetooth of the mobile phone and search for the Bluetooth device (Bluetooth name : AMY) built in the BM3.0 device to play music (audio transmission).

Control board parameters:

Model	BM3.0
Supply voltage	24VDC
Supply current	1A
Connection distance	0-5m
Access horn specification	4Ω, 5W
Control board size	27mmx43mm
Operating temperature	-30℃~+60℃
Bluetooth name	AMY

Bluetooth signal parameters:

Modulation mode: GFSK、 $\pi/4$ -DQPSK

Frequency range: 2400-2483.5MHz

Occupied bandwidth: ≤ 2 MHz

Basic information and use of massage chairs:

Manufacturer: FUANSHI NADASI INDUSTRY & TRADE CO.,LTD.

Address: No. 696 Xueyuan Road, Chengbei Street, Fu'an City, Ningde City, Fujian Province

Product Name: massage chair

Model: A18

The massage chair will automatically change its angle during the automatic procedure. It is forbidden to come close to any gaps and gaps to avoid injury.

Do not use power sources other than 110-240V AC. The power cord must not be used on the product to avoid electric shock, short circuit or fire.

Do not let children ride and play on this product to avoid injury or machine failure

When adjusting the chair back and seat and adjusting the leg lift, first make sure that there are no other people, pets or objects in the back and under the leg massager. During the adjustment process, do not put any parts of the body, including hands and feet, into the gap between the backrest and seat, backrest and armrest, armrest and shoulder, seat and armrest cover to prevent injury.

Do not use this product naked to avoid skin damage.

Be sure to use this product for the purposes described in this manual. Do not sit directly on the leg or armrest parts to avoid injury or accident.

It cannot be used when the main body cover is disassembled or damaged to avoid injury or accident.

Voice commands:

power off	Zero gravity on
auto mode one	zero gravity off
auto mode two	Chair up
auto mode three	recline chair
auto mode four	Turn on arm airbags
auto mode five	turn on shoulder airbags
airbags on	turn on leg airbags
airbags off	Switch massage time
Foot roller on	switch manual massage
Foot roller off	Audio volume up
increase airbag intensity	audio volume down
decrease airbag intensity	Minimum audio volume
Heat on	Maximum audio volume
Heat off	Turn off voice command

Integration instructions for host product manufacturers according to KDB 996369 D03OEM Manual v01

2.2 List of applicable FCC rules

FCC Part 15 Subpart C FCC Part 15.247 & 15.209.

2.3 Specific operational use conditions

The module can be used for mobile applications with a maximum -0.58dBi 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.

2.4 Limited module procedures

The device is a limited module approval.

2.5 Trace antenna designs

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

2.6 RF exposure considerations

The module must be installed in the host equipment such that at least 20cm is maintained between the antenna and users' body; and if RF exposure statement or module layout is changed, then the host product manufacturer is 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.

Product Name: Bluetooth Module

Model Name: BM.3.0

2.7 Antennas

Antenna Specification are as follows:

Type of antenna: PCB Antenna

Gain of antenna: -0.58dBi Max.

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: 2BCUP-BM30"with their finished product

2.9 Information on test modes and additional testing requirements

Host manufacturer must perform test of radiated & conducted emission and spurious emission, e.t.c 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 15.247 &15209 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 circuit), 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

Module installation:

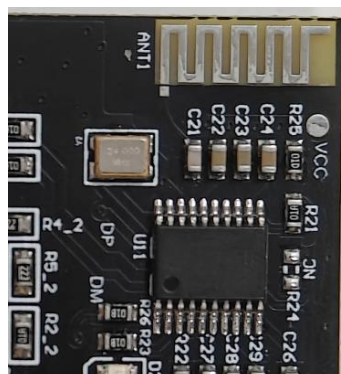
The wireless module is installed in the host product by the factory operator during the production process.

After assembly, the wireless module is built-in by welding in the host product, which is not removable and will not be used alone, and does not require additional operation by users and other personnel

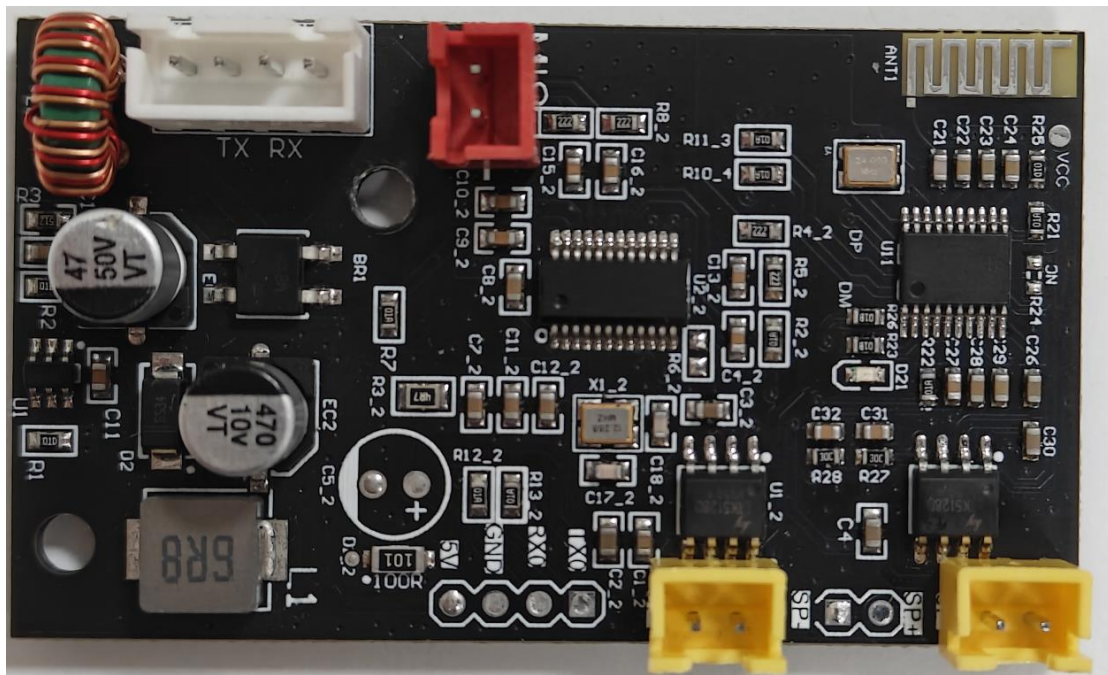
The procedure and installation position of wireless module production and assembly are shown as below:

Wireless module:

Please see the fig-1



Assembly the wireless module to board of the host product through terminals, as Fig 2



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

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: 2BCUP-BM30**"

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 show in this manual