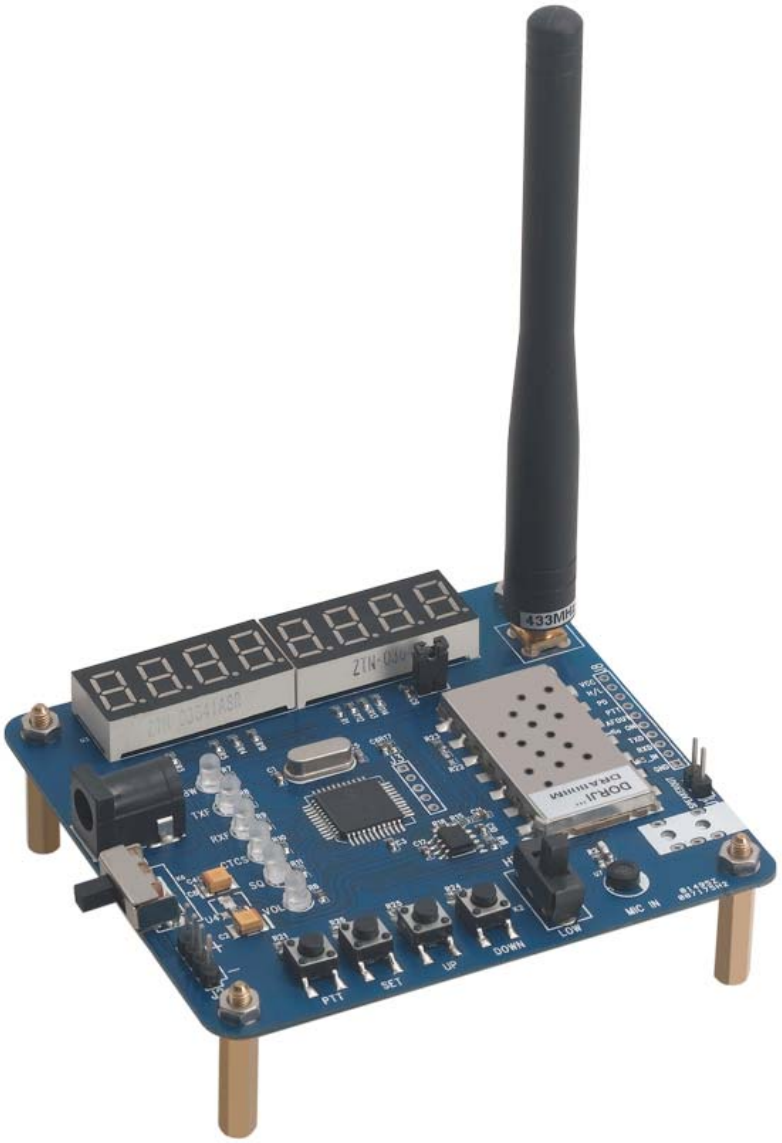
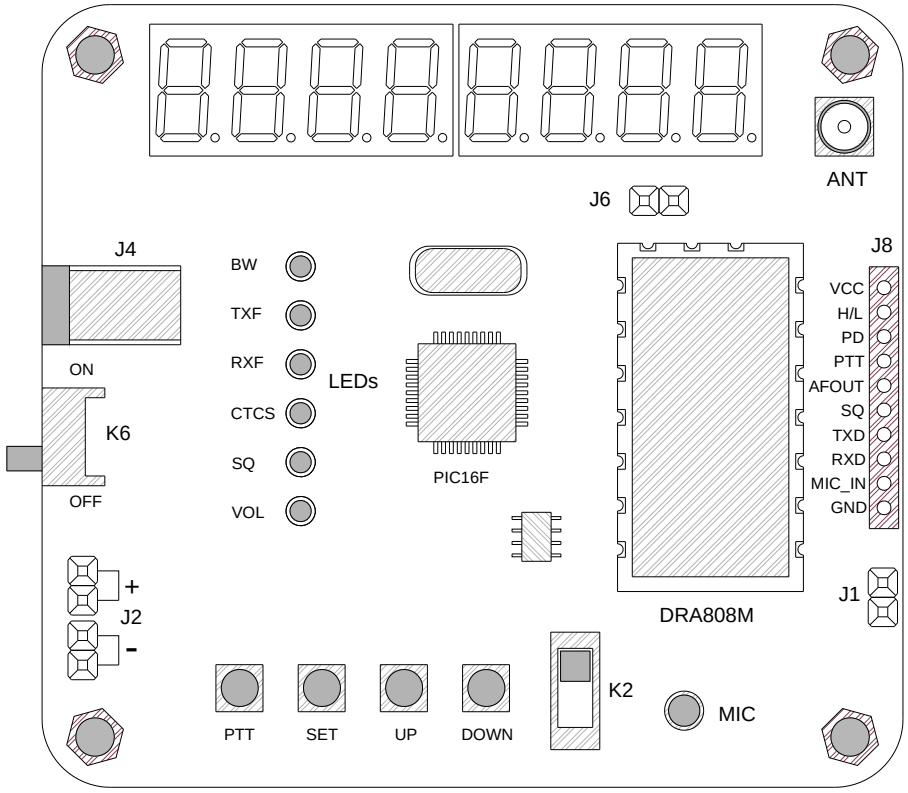
Operation Manual for Demo Kit DAD04 V1.01

The demo kit DAD04 is designed for high power voice transceiver module DRA808M. It contains Display, keypad, audio amplifier, Microphone and DRA808M module. Through keyboard, users can set Bandwidth, Tx/Rx frequency, CTCSS, SQ and volume parameters. By connecting a speaker, users can easily construct a wireless voice transmission system.





1. LEDs

Part Name	Part Type	Function
BW	Led	Indicating the bandwidth
TXF	Led	Transmit frequency: 400~470MHz
RXF	Led	Receive frequency: 400~470MHz
CTCSS	Led	CTCSS code
SQ	Led	Squelch status (0~8); “0” means the audio is always on
VOL	Led	Volume level

2. BUTTONs

1) **PTT:** Users need to press this button in transmitting.
2) **SET:** This button is used to configure parameters. When it is pressed, the corresponding character will twinkle. Users then use UP/DOWN button to change the parameter. When it is pressed again, the next parameter can be changed.
3) **UP:** In normal status it can be used to check the present setting of demo kit. In setting mode it is used to increase the value of parameters.
1) **DOWN:** In normal status it can be used to check the present setting of demo kit. In setting mode it is used to decrease the value of parameters.

3. SWITCH & SOCKET

Part Name	Part Type	Function
J1	Pin header	Audio output; used for connecting speaker
J2	Pin header	Pin header for battery supply
J4	Socket	Power supply socket
J6	Jumper	Used for measuring current.
J8	Pin holes	Used for measuring signal in development
K2	Switch	RF Hi/Low power switch
K6	Pin holes	Power switch
J7	Jumper	Current measurement; Shorted in normal use

4. POWPER SUPPLY

The kit can work at 3.0~5.0V. The recommended working voltage is 4.2V. There are two groups of power inputs: J2 (battery) and S1 (DC socket). Users only can choose one of them in use.

5. APPLIATION NOTES

1) The working voltage can't exceed 5V. The current of kit in 4.5V is about 800mA so 4.2V lithium battery is recommended.
2) Transmit/Receive frequency of the same board can be different but Transmit/Receive another kit should be configured reversely. For example: the Transmit frequency of Kit A should be the same as the Receive frequency of Kit B.
3) When CTCSS is set, the codes of kits should be the same in order to communicate successfully.
4) In order to achieve better voice quality, the outer speaker should be installed in a cavity.

Dorji Applied Technologies
A division of ***Dorji Industrial Group Co., Ltd***

Add.: Xinchenhuayuan 2, Dalangnanlu, Longhua, Baoan district, Shenzhen, China 518109
Tel: 0086-755-28156122
Fax.: 0086-755-28156133
Email: sales@dorji.com
Web: http://www.dorji.com

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