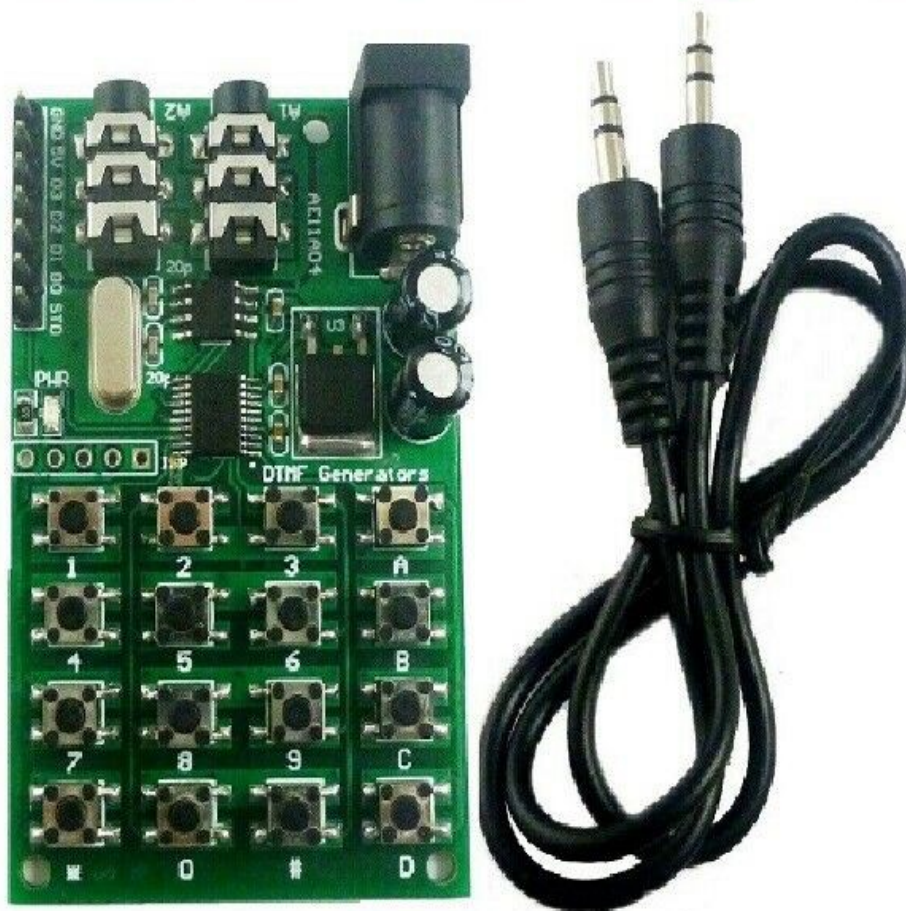Keypad DTMF Generator Module Audio Encoder Transmitter Board for Arduino UNO Pro

Packing list:

1 PCS AE11A04 DTMF Generators Module;

1 PCS 50cm Male to Male audio cable (3.5mm Cable);

Description:

Operating Voltage : 5-24VDC

Working current : 6-8MA

Power interface : 2.1mm x 5.5mm Female Male DC Power Plug

Audio interface : 2x 3.5mm audio jack socket

MCU input interface : 7x 2.54MM pin header,GND 5V D3 D2 D1 D0 STD

Size : 63*40*13mm

Weight : 16g

The AE11A04 DTMF tone generators are designed

for Dialing keyboard AND MCU interfaces. They can be instructed by a MCU(OR Dialing keyboard) to generate 16 dual tones from the Audio 1/2 . 16 dual tones is "1234567890#*ABCD"

Audio 1: This is a universal interface that connects most audio devices. For example: mobile audio interface, PC audio interface, DTMF decoder

Audio 2: This is a specific audio interface. Support the following products of our company: CE004 CE005 CE023 AD22B04 AD22A08

Power interface : DC 5-24V

Dialing keyboard

DTMF Generators

AE11A04

Audio 1

Audio 2

3.579545

GND 5V D3 D2 D1 D0 STO

PWR

472

MCU input interface

Audio 1: This is a universal interface that connects most audio devices. For example: mobile audio interface, PC audio interface, DTMF decoder
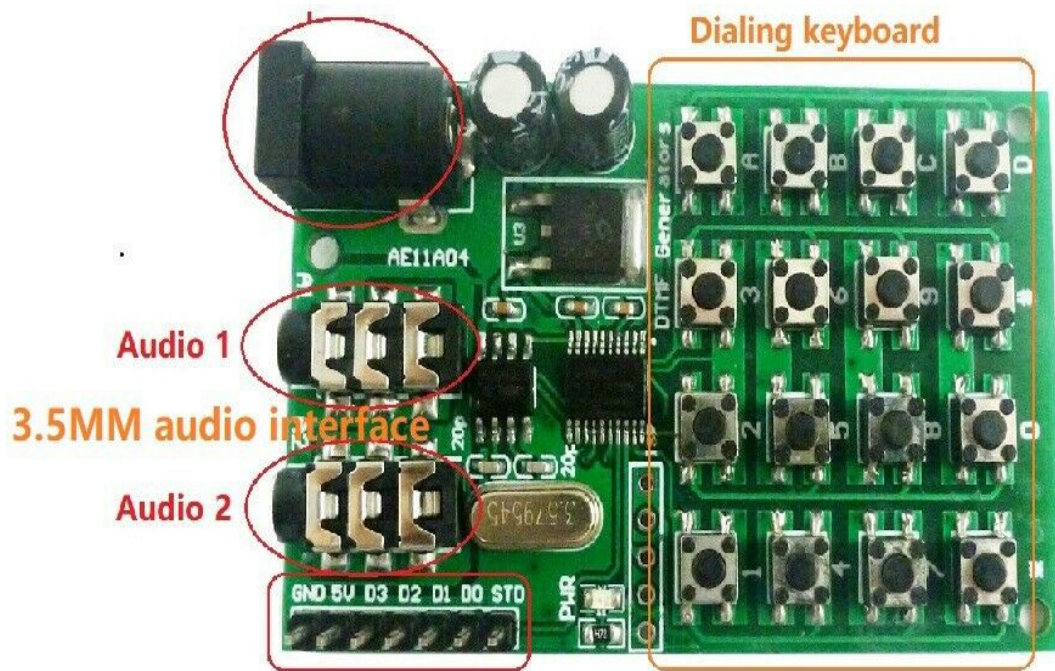
Audio 2: This is a specific audio interface. Support the following products of our company:

CE004 CE005 CE023 AD22B04 AD22A08

Dialing keyboard

Audio 1

3.5MM audio interface

Audio 2

AE11A04

GND 5V D3 D2 D1 D0 STD
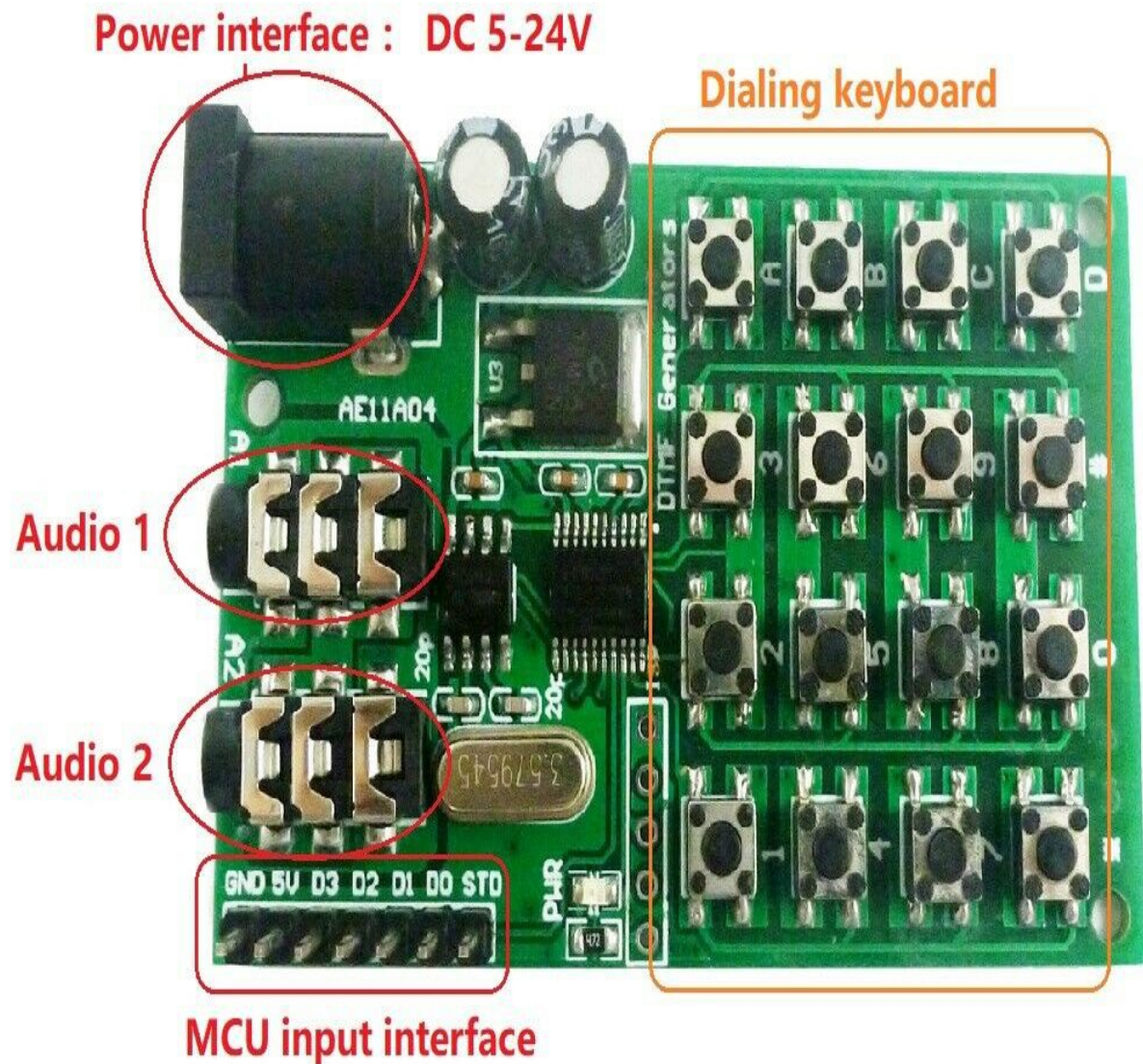
Audio 1 supports most audio devices, including the following:

Audio 2: This is a specific audio interface. Support the following:
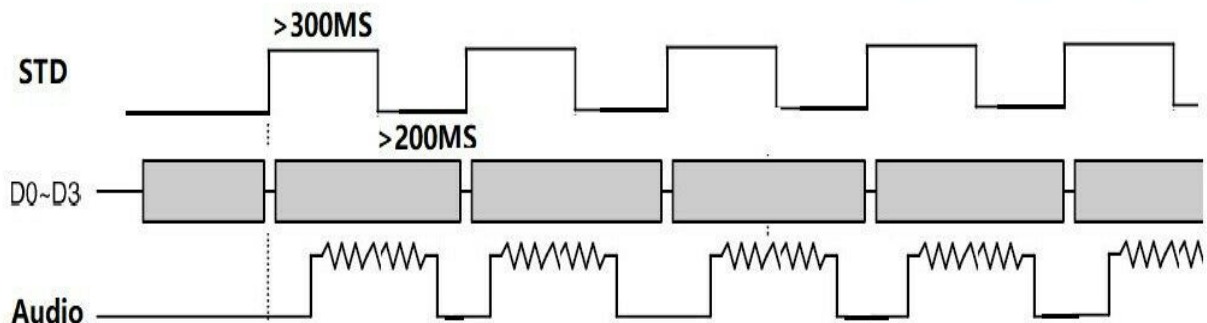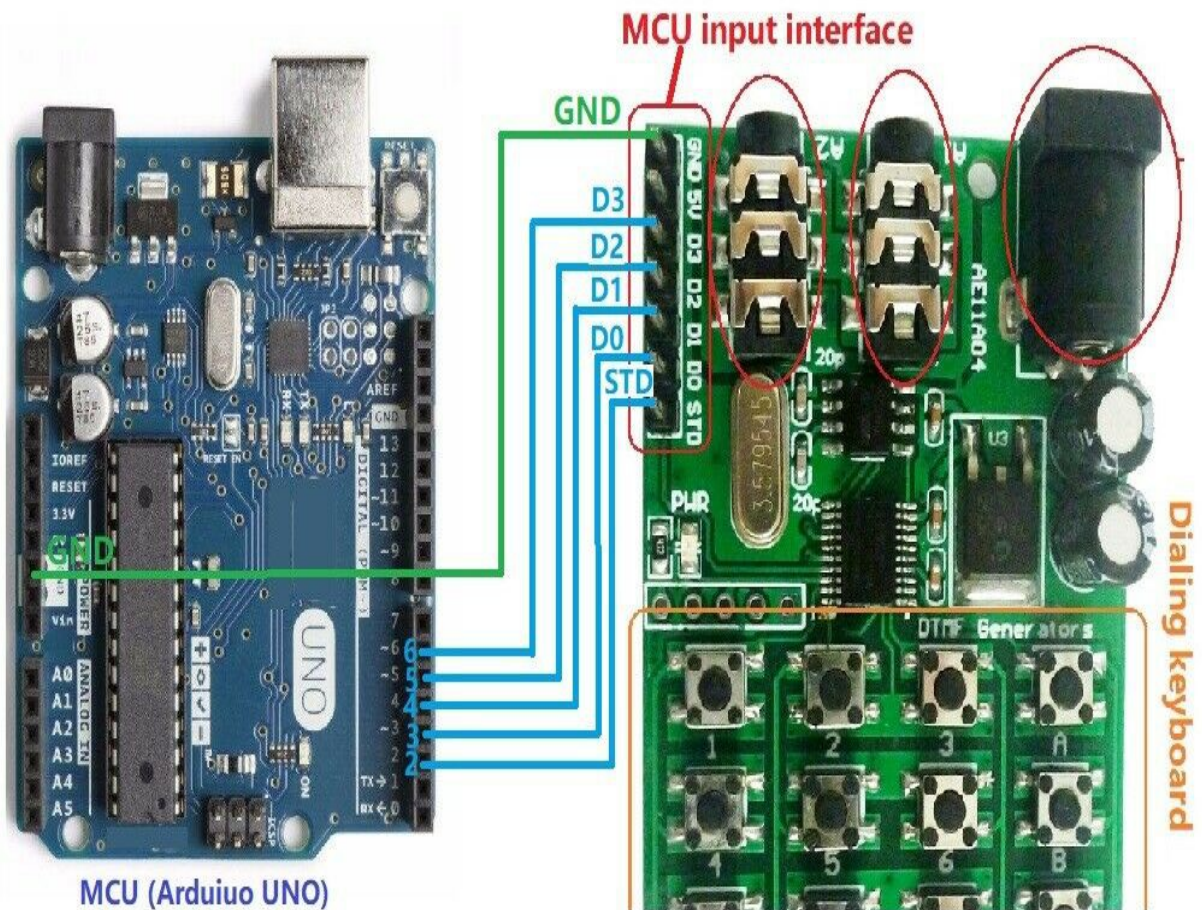

CE004   CE005   CE023   AD22B04   AD22A08

How to use:

1 Output DTMF tone through Dialing keyboard

2 Output DTMF tone through MCU control

How to use:

1 Output DTMF code through Dialing keyboard

2 Output DTMF encoding through MCU control

MCU input interface

GND

D3
D2
D1
D0
STD

GND

MCU (Arduiuo UNO)

Dialing keyboard

DTMF Generators

>300MS

STD

>200MS

D0~D3

Audio

MCU control timing : Load D0-D3 data when STD is high

STD high-level and D0-D3 hold time : >300MS ; STD low-level hold time : >200MS

STD >300MS

D0~D3 >200MS
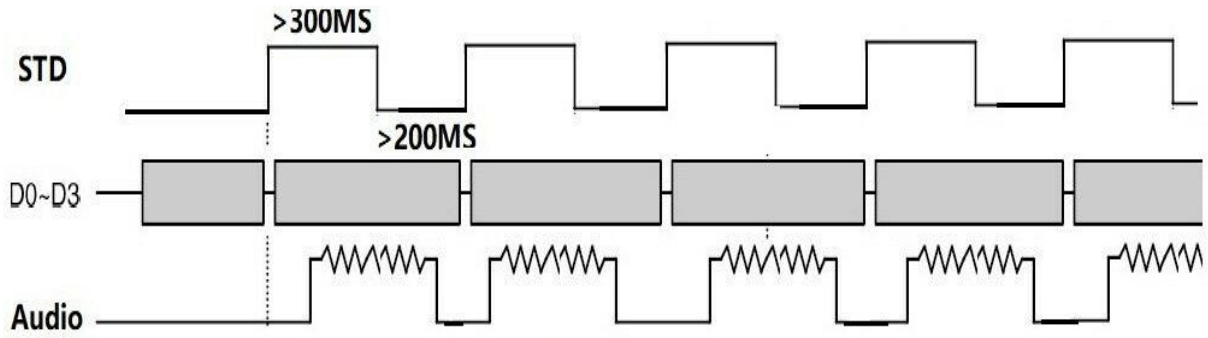
Audio

MCU control timing : Load D0-D3 data when STD is high

STD high-level and D0-D3 hold time : >300MS ; STD low-level hold time : >200MS

Digits vs. input data vs. tone output frequency

Digit	STD	D3	D2	D1	D0	Audio Frequency(HZ)
1	⤒	0	0	0	1	697+1209
2	⤒	0	0	1	0	697+1336
3	⤒	0	0	1	1	697+1477
4	⤒	0	1	0	0	770+1209
5	⤒	0	1	0	1	770+1336
6	⤒	0	1	1	0	770+1477
7	⤒	0	1	1	1	852+1209
8	⤒	1	0	0	0	852+1336
9	⤒	1	0	0	1	852+1477
0	⤒	1	0	1	0	941+1336
*	⤒	1	0	1	1	941+1209
#	⤒	1	1	0	0	941+1477
A	⤒	1	1	0	1	697+1633
B	⤒	1	1	1	0	770+1633
C	⤒	1	1	1	1	852+1633
D	⤒	0	0	0	0	941+1633