

## 1.Description:

DY-AP3001 is a high-power mono Bluetooth audio module.Single channel audio signal output.Built-in amplifier module therefore it can connect to loudspeaker directly.It is ideal for DIY speakers and transponders.

## 2.Features:

- 1.Width work voltage range
- 2.Applicable multiple type speakers
- 3.Support enabled/disabled output

## 3.Parameters:

- 1.Product name: DY-AP3001 Digital Amplifier Module
- 2.Model: DY-AP3001
- 3.Work Voltage: DC 8V-24V
- 4.Work Mode: Class D
- 5.Channel: Mono
- 6.Input: Audio input
- 7.Output Power:
  - 7.1 Output power 30W at 16V 4ohm
  - 7.2 Output power 20W at 12V 4ohm
  - 7.3 Output power 10W at 12V 8ohm
  - 7.4 Output power 15W at 16V 8ohm
  - 7.5 Output power 25W at 24V 8ohm
- 8.Match speaker(30W~300V):
  - 8.1.4ohm at 8V~16V
  - 8.2.8ohm at 8V~24V
- 9.Work Temperature: -40°C~85°C
- 10.Work Humidity: 0%~95%RH
- 11.Module Size: 26\*22\*10mm

## 4.Use steps:

- 1.Choose the right speaker and connect as shown in wiring diagram.
- 2.Connect to right power supply from input terminal.

## 5.Application:

- 1.Modified speaker
- 2.Amplifier equipment
- 3.Car device

## 6.Note:

- 1.Pay attention to static electricity protection.
- 2.Recommended power supply voltage DC 8~24V.Module will be damaged if input voltage is more than 26V.
- 3.Input voltage can not more than 16V if connect 4ohm speaker.
- 4.Input voltage can not more than 24V if connect 8ohm speaker.
- 5.It is recommended to use a power supply of 2A or higher.
- 6.The positive and negative poles of the input power supply cannot be reversed Otherwise the module will be damaged.
- 7.Please don't use too long wires to avoid signal interference.
- 8.It is recommended to use a speaker above 30W to avoid speaker damage.
- 9.Please read use manual and description before use.

## 7.Frequently asked questions:

- 1.Speaker 'pu~' after power ON and then no response.
  - 1.1 Try to reduce the input voltage to restart.
  - 1.2 Check if the speaker impedance is 4ohm~8ohm.Maybe the impedance is too small.
  - 1.3 Check power.Make sure its input current is more than 2A.
- 2.There is noise during playback.
  - 2.1 Change the sound source and check if the sound source has its own noise.
  - 2.2 Use shielded audio cable.
  - 2.3 Change speaker.

2.4 Change power adapter.

3. Module get hot and smoke.

3.1 Speaker power is too small. Change high power speakers or reduce signal input.

