WHAT IS CLAIMED IS:

1. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b, wherein

the first level comparison module comprises a NPN triode Ta, and the NPN triode Ta comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to a base of the PNP triode Tc via the resistor R2a;

the second level comparison module comprises a NPN triode Tb, and the NPN triode Tb comprises a base connected to the second pin, an emitter connected to the first pin, and a collector connected to a signal input pin Sel of the switching module and connected to the base of the PNP triode Tc via the resistor R2b;

an emitter of the PNP triode Tc is connected to the power output terminal VBAT, and a collector of the PNP triode Tc is connected to a power input pin VCC of the switching module;

a first input pin B0L of the switching module is connected to the first pin, a second input pin B1H of the switching module is connected to the second pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the second input pin B1H to the output pin of the switching module according to a level of a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

2. The device according to claim 1, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

3. The device according to claim 2, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

4. The device according to claim2 or 3, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

5. The device according to claim 3, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor, and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group

consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

6. The device according to claim 1, wherein

the audio interface is a headphone plug or a headphone jack.

7. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b; wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a second pin, a negative electrode of the first reference voltage module H1 is connected to a first pin, a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1, and an output pin of the comparator C1 is connected to a base of the PNP triode Tc via the resistor R2a;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin, a positive electrode of the second reference voltage module H2 is connected to the first pin, a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2, and an output pin of the comparator C2 is connected to a signal input pin Sel of the switching module, and the output pin of the comparator C2 is connected to the base of the PNP triode Tc via the resistor R2b;

a first input pin B0L of the switching module is connected to the first pin, a second input pin B1H of the switching module is connected to the second pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the

second input pin B1H to the output pin of the switching module according to a level of a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

8. The device according to claim 7, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

9. The device according to claim 8, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

10. The device according to any of claims 8 to 9, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

11. The device according to claim 9, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

12. The device according to claim 7, wherein

the audio interface is a headphone plug or a headphone jack.

13. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b; wherein

the first level comparison module comprises a NPN triode Ta;

the NPN triode Ta comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to a base of the PNP triode Tc via the resistor R2a;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin, a positive electrode of the second reference voltage module H2 is connected to the first pin, a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2, an output pin of the comparator C2 is connected to a signal input pin Sel of the switching module, and the output pin of the comparator C2 is connected to the base of the PNP triode Tc via the resistor R2b;

an emitter of the PNP triode Tc is connected to the power output terminal VBAT, and

a collector of the PNP triode Tc is connected to a power input pin VCC of the switching module;

a first input pin B0L of the switching module is connected to the first pin, a second input pin B1H of the switching module is connected to the second pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the second input pin B1H to the output pin of the switching module according to a level of the a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

wherein the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

14. The device according to claim 13, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

15. The device according to claim 14, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second

signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

16. The device according to any of claims 14 to 15, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

17. The device according to claim 15, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

18. The device according to claim 13, wherein

the audio interface is a headphone plug or a headphone jack.

19. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b, wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a first pin, a negative electrode of the first reference voltage module H1 is connected to a second pin, a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1, and an output pin of the comparator C1 is connected to a base of the

PNP triode Tc via the resistor R2a;

the second level comparison module comprises a NPN triode Tb;

the NPN triode Tb comprises a base connected to the first pin, an emitter connected to the second pin, and a collector connected to a signal input pin Sel of the switching module and connected to the base of the PNP triode Tc via the resistor R2b;

an emitter of the PNP triode Tc is connected to the power output terminal VBAT, and a collector of the PNP triode Tc is connected to a power input pin VCC of the switching module;

a first input pin B0L of the switching module is connected to the second pin, a second input pin B1H of the switching module is connected to the first pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the second input pin B1H to the output pin of the switching module according to a level of a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

20. The method according to claim 19, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

21. The device according to claim 20, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

22. The device according to any of claims 20 to 21, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

23. The device according to claim 21, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

24. The device according to claim 19, wherein

the audio interface is a headphone plug or a headphone jack.

25. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3 and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a power output terminal VBAT, a first switching module, a second switching module, and a resistor R2a, a resistor R2b, a resistor R3a, and

a resistor R3b; wherein

the first level comparison module comprises a NPN triode Ta, and the NPN triode Ta of the first level comparison module comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to the power output terminal VBAT via the resistor R2a and the resistor R3a and connected to a signal input pin Sel1 of the first switching module;

the second level comparison module comprises a NPN triode Tb, and the NPN triode Tb of the second level comparison module comprises a base connected to the second pin, an emitter connected to the first pin, and a collector connected to the power output terminal VBAT via the resistor R2b and the resistor R3b and connected to a signal input pin Sel2 of the second switching module;

a first input pin B0L of the first switching module is connected to the first pin, a first input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, and a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the first input pin B0L of the second switching module to the output pin of the second switching module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the output pin of the first switching module according to a high level signal received by the signal input pin Sel1; and the second switching module is configured to connect the second input pin B1H of the second switching module to the output pin of the second switching module according to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a

ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

26. The device according to claim 25, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

27. The device according to claim 26, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

28. The device according to any of claims 26 to 27, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

29. The device according to claim 27, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

30. The device according to claim 25, wherein

the audio interface is a headphone plug or a headphone jack.

31. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a power output terminal VBAT, a first switching module, and a second switching module; wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a second pin; a negative electrode of the first reference voltage module H1 is connected to a first pin; a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1; and an output pin of the comparator C1 is connected to a signal input pin Sel1 of the first switching module;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin; a positive electrode of the second reference voltage module H2 is connected to the first pin; a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2; and an output pin of the comparator C2 is connected to a signal input pin Sel2 of the second switching module;

a first input pin B0L of the first switching module is connected to the first pin, a first

input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the first input pin B0L of the second switching module to the output pin of the second switching module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the output pin of the first switching module according to a high level signal received by the signal input pin Sel1; the second switching module is configured to connect the second input pin B1H of the second switching module to the output pin of the second switching module according to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4.

32. The device according to claim 31, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

33. The device according to claim 32, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

34. The device according to any of claims 32 to 33, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

35. The device according to claim 33, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

36. The device according to claim 31, wherein

the audio interface is a headphone plug or a headphone jack.

37. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module,

a second level comparison module, a power output terminal VBAT, a first switching module, a second switching module, a resistor R2a, and a resistor R3a; wherein

the first level comparison module comprises a NPN triode Ta;

the NPN triode Ta comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to the power output terminal VBAT via the resistor R2a and the resistor R3a and connected to a signal input pin Sel1 of the first switching module via the resistor R2a;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin; a positive electrode of the second reference voltage module H2 is connected to the first pin; a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2; an output pin of the comparator C2 is connected to a signal input pin Sel2 of the second switching module;

a first input pin B0L of the first switching module is connected to the first pin, a first input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the first input pin B0L of the second switching module to the output pin of the second switching module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the output pin of the first switching module according to a high level signal received by the signal input pin Sel1; the second switching module is configured to connect the second input pin B1H of the second switching module to the

output pin of the second switching module according to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire, and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4.

38. The device according to claim 37, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

39. The device according to claim 38, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

40. The device according to any of claims 38 to 39, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

41. The device according to claim 39, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

42. The device according to claim 37, wherein

the audio interface is a headphone plug or a headphone jack.

43. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin of the audio interface, wherein the device further comprises a first level comparison module, a second level comparison module, a power output terminal VBAT, a first switching module, a second switching module, a resistor R2b, and a resistor R3b; wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a first pin; a negative electrode of the first reference voltage module H1 is connected to a second pin; a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1; an output pin of the comparator C1 is connected to a signal input pin Sel1 of the first switching module;

the second level comparison module comprises a NPN triode Tb;

the NPN triode Tb comprises a base connected to the first pin, an emitter connected to the second pin, and a collector connected to the power output terminal VBAT via the resistor R2b and the resistor R3b and connected to a signal input pin Sel2 of the second

switching module via the resistor R2b;

a first input pin B0L of the first switching module is connected to the first pin, a first input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the first input pin B0L of the second switching module to the output pin of the second switching module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the output pin of the first switching module according to a high level signal received by the signal input pin Sel1; the second switching module is configured to connect the second input pin B1H of the second switching module to the output pin of the second switching module according to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4.

44. The device according to claim 43, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the

audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

45. The device according to claim 44, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component;

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

46. The device according to any of claims 44 to 45, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS.

47. The device according to claim 45, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

48. The device according to claim 43, wherein

the audio interface is a headphone plug or a headphone jack.

49. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4

being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin of the audio interface, wherein the device further comprises a level comparison module and an earthed switching module;

the level comparison module is configured to detect levels of the pin 3 and the pin 4 of the audio interface and to output a control instruction for controlling the earthed switching module according to the detected levels; and

the earthed switching module is configured to connect a GND pin being the pin 3 or the pin 4 of the audio interface to the ground according to the control instruction.

50. The device according to claim 49, wherein

the level comparison module comprises a first level comparison module and a second level comparison module.

51. The device according to claim 50, wherein

the first level comparison module comprises a triode or a comparator; and

the second level comparison module comprises a triode or a comparator.

52. The device according to claim 50, wherein

the earthed switching module comprises a switching module, and the switching module is configured to receive a control instruction output by the first level comparison module or the second level comparison module after the levels of the pin 3 and the pin 4 of the audio interface are detected by the first level comparison module or the second level comparison module.

53. The device according to claim 52, wherein

the switching module further comprises a delay switching module configured to delay powering on the switching module.

54. The device according to claim 50, wherein

the earthed switching module comprises a first switching module and/or a second switching module;

the first switching module is configured to receive a control instruction output by the first level comparison module after the levels of the pin 3 and the pin 4 of the audio interface are detected by the first level comparison module; and

the second switching module is configured to receive the control instruction output by the second level comparison module after the levels of the pin 3 and the pin 4 of the audio interface are detected by the second level comparison module.

55. The device according to claim 49, wherein

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire;

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

56. The device according to claim 55, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

57. The device according to any of claims 55 to 56, wherein

the first unidirectional conductive component comprises one selected from a group consisting of: a diode, a triode, and a MOS; and

the second unidirectional conductive component comprises one selected from a group

consisting of: a diode, a triode, and a MOS.

58. The device according to claim 55, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

59. The device according to claim 49, wherein

the audio interface is a headphone plug or a headphone jack.

WHAT IS CLAIMED IS:

1. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b, wherein

the first level comparison module comprises a NPN triode Ta, and the NPN triode Ta comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to a base of the PNP triode Tc via the resistor R2a;

the second level comparison module comprises a NPN triode Tb, and the NPN triode Tb comprises a base connected to the second pin, an emitter connected to the first pin, and a collector connected to a signal input pin Sel of the switching module and connected to the base of the PNP triode Tc via the resistor R2b;

an emitter of the PNP triode Tc is connected to the power output terminal VBAT, and a collector of the PNP triode Tc is connected to a power input pin VCC of the switching module;

a first input pin B0L of the switching module is connected to the first pin, a second input pin B1H of the switching module is connected to the second pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the second input pin B1H to the output pin of the switching module according to a level of a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

2. The device according to claim 1, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and

the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

3. The device according to claim 2, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

4. The device according to claim 3, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor, and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

5. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b; wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a second pin, a negative electrode of

the first reference voltage module H1 is connected to a first pin, a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1, and an output pin of the comparator C1 is connected to a base of the PNP triode Tc via the resistor R2a;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin, a positive electrode of the second reference voltage module H2 is connected to the first pin, a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2, and an output pin of the comparator C2 is connected to a signal input pin Sel of the switching module, and the output pin of the comparator C2 is connected to the base of the PNP triode Tc via the resistor R2b;

a first input pin B0L of the switching module is connected to the first pin, a second input pin B1H of the switching module is connected to the second pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the second input pin B1H to the output pin of the switching module according to a level of a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

6. The device according to claim 5, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

7. The device according to claim 6, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

8. The device according to claim 7, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

9. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b; wherein

the first level comparison module comprises a NPN triode Ta;

the NPN triode Ta comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to a base of the PNP triode Tc via the resistor R2a;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin, a positive electrode of the second reference voltage module H2 is connected to the first pin, a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2, an output pin of the comparator C2 is connected to a signal input pin Sel of the switching module,

and the output pin of the comparator C2 is connected to the base of the PNP triode Tc via the resistor R2b;

an emitter of the PNP triode Tc is connected to the power output terminal VBAT, and a collector of the PNP triode Tc is connected to a power input pin VCC of the switching module;

a first input pin B0L of the switching module is connected to the first pin, a second input pin B1H of the switching module is connected to the second pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the second input pin B1H to the output pin of the switching module according to a level of the a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

wherein the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

10. The device according to claim 9, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

11. The device according to claim 10, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the

pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

12. The device according to claim 11, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

13. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a PNP triode Tc, a power output terminal VBAT, a switching module, a resistor R2a, and a resistor R2b, wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a first pin, a negative electrode of the first reference voltage module H1 is connected to a second pin, a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1, and an output pin of the comparator C1 is connected to a base of the PNP triode Tc via the resistor R2a;

the second level comparison module comprises a NPN triode Tb;

the NPN triode Tb comprises a base connected to the first pin, an emitter connected to the second pin, and a collector connected to a signal input pin Sel of the switching module and connected to the base of the PNP triode Tc via the resistor R2b;

an emitter of the PNP triode Tc is connected to the power output terminal VBAT, and a collector of the PNP triode Tc is connected to a power input pin VCC of the switching module;

a first input pin B0L of the switching module is connected to the second pin, a second input pin B1H of the switching module is connected to the first pin, and an output pin of the switching module is connected to the ground;

the switching module is configured to connect one of the first input pin B0L and the second

input pin B1H to the output pin of the switching module according to a level of a signal received by the signal input pin Sel;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

14. The method according to claim 13, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

15. The device according to claim 14, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

16. The device according to claim 15, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a

resistor and an operational amplifier connected in parallel.

17. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3 and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a power output terminal VBAT, a first switching module, a second switching module, and a resistor R2a, a resistor R2b, a resistor R3a, and a resistor R3b; wherein

the first level comparison module comprises a NPN triode Ta, and the NPN triode Ta of the first level comparison module comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to the power output terminal VBAT via the resistor R2a and the resistor R3a and connected to a signal input pin Sel1 of the first switching module;

the second level comparison module comprises a NPN triode Tb, and the NPN triode Tb of the second level comparison module comprises a base connected to the second pin, an emitter connected to the first pin, and a collector connected to the power output terminal VBAT via the resistor R2b and the resistor R3b and connected to a signal input pin Sel2 of the second switching module;

a first input pin B0L of the first switching module is connected to the first pin, a first input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, and a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the first input pin B0L of the second switching module to the output pin of the second switching module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the output pin of the first switching module according to a high level signal received by the signal input pin Sel1; and the second switching module is configured to connect the second input pin B1H of the second switching module to the output pin of the second switching module according

to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4 of the audio interface.

18. The device according to claim 17, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

19. The device according to claim 18, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

20. The device according to claim 19, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

21. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a power output terminal VBAT, a first switching module, and a second switching module; wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a second pin; a negative electrode of the first reference voltage module H1 is connected to a first pin; a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1; and an output pin of the comparator C1 is connected to a signal input pin Sel1 of the first switching module;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin; a positive electrode of the second reference voltage module H2 is connected to the first pin; a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2; and an output pin of the comparator C2 is connected to a signal input pin Sel2 of the second switching module;

a first input pin B0L of the first switching module is connected to the first pin, a first input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the first input pin B0L of the second switching module to the output pin of the second switching module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the

output pin of the first switching module according to a high level signal received by the signal input pin Sel1; the second switching module is configured to connect the second input pin B1H of the second switching module to the output pin of the second switching module according to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4.

22. The device according to claim 21, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

23. The device according to claim 22, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

24. The device according to claim 23, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

25. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin, wherein the device further comprises a first level comparison module, a second level comparison module, a power output terminal VBAT, a first switching module, a second switching module, a resistor R2a, and a resistor R3a; wherein

the first level comparison module comprises a NPN triode Ta;

the NPN triode Ta comprises a base connected to a first pin, an emitter connected to a second pin, and a collector connected to the power output terminal VBAT via the resistor R2a and the resistor R3a and connected to a signal input pin Sel1 of the first switching module via the resistor R2a;

the second level comparison module comprises a second reference voltage module H2 and a comparator C2;

a negative electrode of the comparator C2 is connected to the second pin; a positive electrode of the second reference voltage module H2 is connected to the first pin; a negative electrode of the second reference voltage module H2 is connected to a positive electrode of the comparator C2; an output pin of the comparator C2 is connected to a signal input pin Sel2 of the second switching module;

a first input pin B0L of the first switching module is connected to the first pin, a first input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the first input pin B0L of the second switching module to the output pin of the second switching

module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the output pin of the first switching module according to a high level signal received by the signal input pin Sel1; the second switching module is configured to connect the second input pin B1H of the second switching module to the output pin of the second switching module according to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire, and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4.

26. The device according to claim 25, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

27. The device according to claim 26, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component; and

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

28. The device according to claim 27, wherein

the first signal processing module comprises at least one selected from a group consisting of:

a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.

29. An audio interface self-adaption device, comprising an audio interface, the audio interface comprising a pin 1, a pin 2, a pin 3, and a pin 4, one of the pin 3 and the pin 4 being a microphone pin of the audio interface, and the other one of the pin 3 and the pin 4 being a ground pin of the audio interface, wherein the device further comprises a first level comparison module, a second level comparison module, a power output terminal VBAT, a first switching module, a second switching module, a resistor R2b, and a resistor R3b; wherein

the first level comparison module comprises a first reference voltage module H1 and a comparator C1;

a positive electrode of the comparator C1 is connected to a first pin; a negative electrode of the first reference voltage module H1 is connected to a second pin; a positive electrode of the first reference voltage module H1 is connected to a negative electrode of the comparator C1; an output pin of the comparator C1 is connected to a signal input pin Sel1 of the first switching module;

the second level comparison module comprises a NPN triode Tb;

the NPN triode Tb comprises a base connected to the first pin, an emitter connected to the second pin, and a collector connected to the power output terminal VBAT via the resistor R2b and the resistor R3b and connected to a signal input pin Sel2 of the second switching module via the resistor R2b;

a first input pin B0L of the first switching module is connected to the first pin, a first input pin B0L of the second switching module is connected to the second pin; or, a second input pin B1H of the first switching module is connected to the second pin, a second input pin B1H of the second switching module is connected to the first pin; and an output pin of the first switching module is connected to the ground, and an output pin of the second switching module is connected to the ground;

the first switching module is configured to connect the first input pin B0L of the first switching module to the output pin of the first switching module according to a low level signal received by the signal input pin Sel1; the second switching module is configured to connect the

first input pin B0L of the second switching module to the output pin of the second switching module according to a low level signal received by the signal input pin Sel2; the first switching module is configured to connect the second input pin B1H of the first switching module to the output pin of the first switching module according to a high level signal received by the signal input pin Sel1; the second switching module is configured to connect the second input pin B1H of the second switching module to the output pin of the second switching module according to a high level signal received by the signal input pin Sel2;

an audio pin being the pin 1 and/or the pin 2 of the audio interface is connected to a ground wire; and

the first pin is one of the pin 3 and the pin 4 of the audio interface, and the second pin is the other one of the pin 3 and the pin 4.

30. The device according to claim 29, wherein

the device further comprises a first unidirectional conductive component, a second unidirectional conductive component, and a resistor R4;

the audio pin is connected to the pin 3 via the first unidirectional conductive component, and the audio pin is connected to the pin 4 via the second unidirectional conductive component;

a conducting direction of the first unidirectional conductive component is from the audio pin to the pin 3, and a conducting direction of the second unidirectional conductive component is from the audio pin to the pin 4; and

the pin 3 and the pin 4 of the audio interface are connected via the resistor R4.

31. The device according to claim 30, wherein

the audio pin comprises the pin 1 and the pin 2 of the audio interface;

the pin 1 is connected to the first unidirectional conductive component via a first signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 1 is connected to the pin 4 via the first signal processing module and the second unidirectional conductive component;

the pin 2 is connected to the first unidirectional conductive component via a second signal processing module, the first unidirectional conductive component is connected to the pin 3, and the pin 2 is connected to the pin 4 via the second signal processing module and the second unidirectional conductive component.

32. The device according to claim 31, wherein

the first signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel; and

the second signal processing module comprises at least one selected from a group consisting of: a resistor, a microphone, a transformer, a resistor and a comparator connected in parallel, and a resistor and an operational amplifier connected in parallel.