

# Operation instruction

CZ301 is an CD MP3 USB car audio product. The main work principle can be divided into 3 parts: the control part, the audio part and the power part. The control part takes charge in the control of the machine which uses UPD78F0547 as its main control unit, the control function including: Keys AD sampling, detect input signal, power management, audio source switch control, bus mastering (including I<sup>2</sup>C, SPI, UART) etc.

The audio part can be divided into two kinds: A. The inside audio, namely CD、USB、SD audio which is produced by CD audio processor BX8805 ; B. The outside audio, which is not produced by CD audio processor BX8805 . As for the inside audio, after it comes out from CD audio processor BX8805 , then convert the digital audio signal to analog audio signal, after that, go through preamplifier and power amplifier so that the current can drive the speaker; As for the outside audio, go through audio source switch, preamplifier, power amplifier and drive the speaker;.

The system uses DC regulator for input +14V voltage to different voltage which are needed by the machine.

Operation Frequency: 2402-2480MHz

Modulation: GFSK, DQPSK, 8DPSK

Antenna Type: PCB antenna

Antenna GAIN: 4dBi

Power Supply: DC 12V

**Temperature Range:** 0°C ~ +55°C