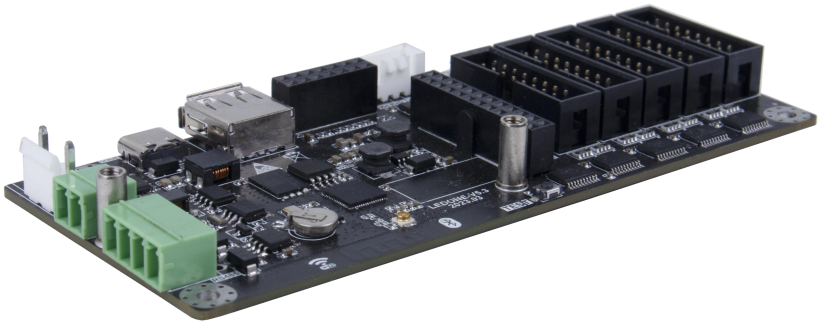
SYSOLUTION



Small size MCU card

KD06

Product specification

Version：V1.0

Statement

Dear user friend, thanks for choosing SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD (hereinafter referred to as Sysolution) as your LED advertising equipment control system. The main purpose of this document is to help you quickly understand and use the product. We strive to be precise and reliable when writing the document, and the content may be modified or changed at any time without notice.

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Trademark

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Update Record

No.	Version	Updates	Revision Date
1	V1.0	Initial Release	2023.08.01

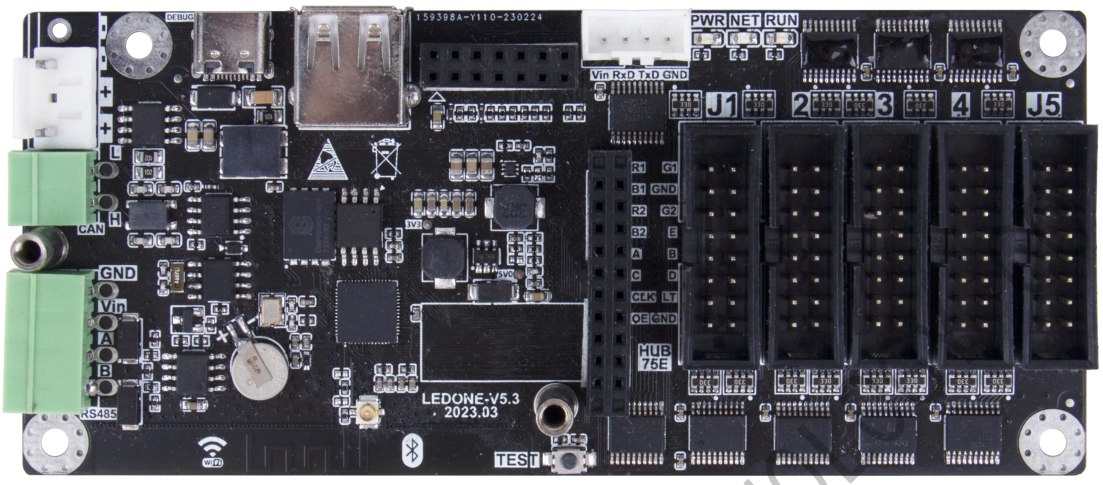
The document is subject to change without prior notice.

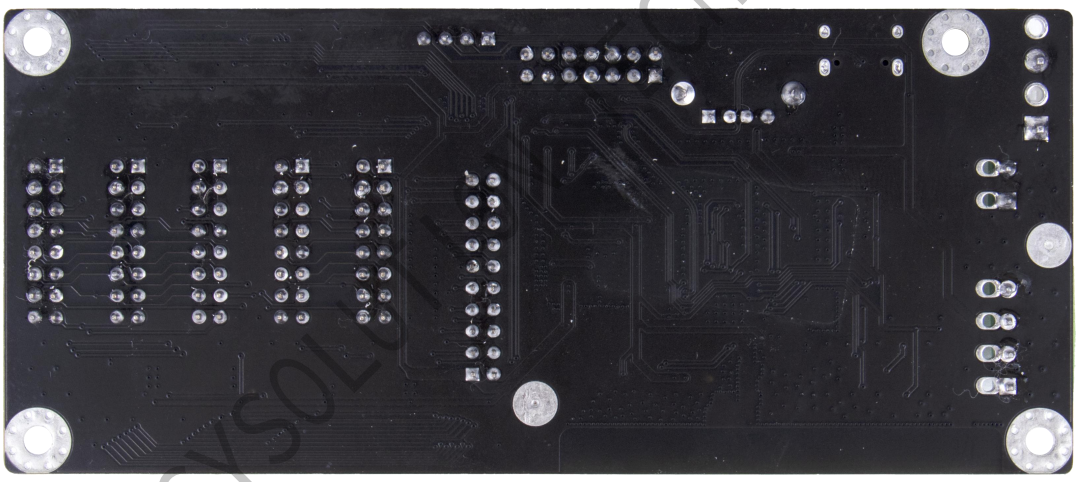
Product Introduction

KD06 is a Wi-Fi + BT + BLE microcontroller universal card, support HUB 75 interface protocols, will not affect the secondary use of the module. With A,B,C,D,E f5 lines scanning signals, support key rest function; The clock frequency range from 80MHz to 240MHz.

It can be used for doorway full-color bar screen, cab animation, backpack screen, car sticker screen, stall screen, creative display screen, motorcycle screen, etc.

Product Image

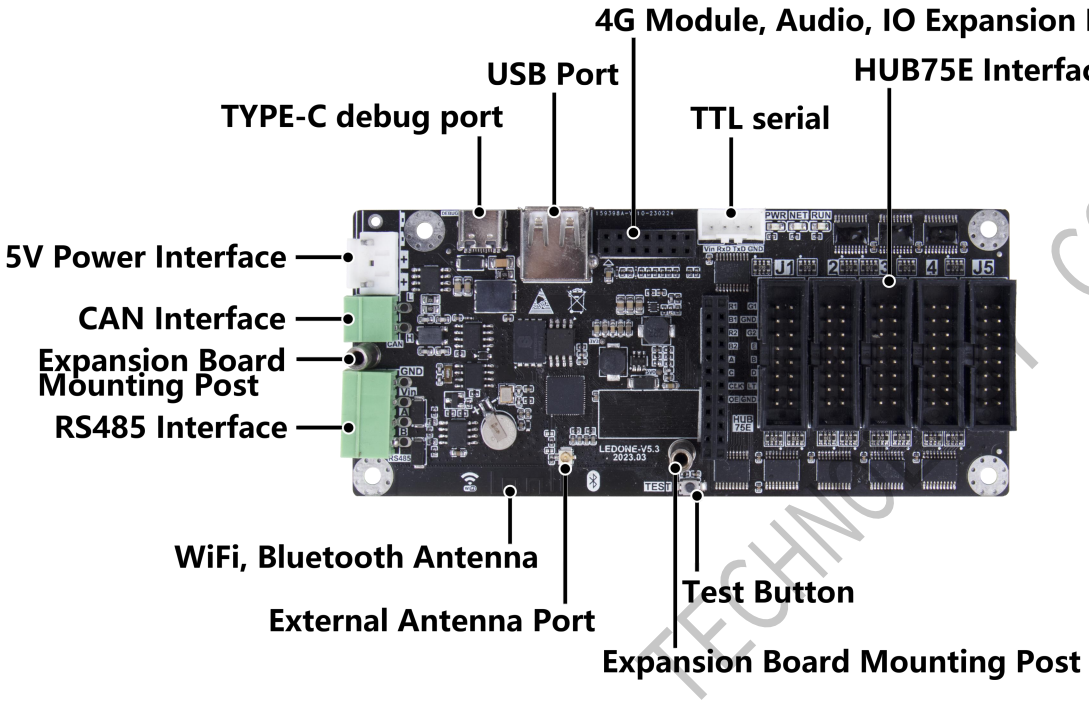




Product Parameters

Items	Parameters
Loading Pixels	5 HUB75 Interfaces, 320x320
Communication methods	Bluetooth/WiFi/RS485/TTL communication
System	1. 448KB of ROM for program startup and kernel function calls 2. Integrate SPIflash 8MB 3. 520KB on-chip SRAM for data and instruction storage 4. RTC fast memory, as an 8KB SRAM, can be used for data storage and accessed by the main CPU during RTC startup in Deep-sleep mode. 5. RTC slow memory, as an 8KB SRAM, can be accessed by the coprocessor in Deep-sleep mode.
WiFi	1. Support IEEE802.11b/g/n protocol 2. Operating frequency range: 2.4GHz~2.5GHz
Bluetooth	1. Compliant with Bluetooth v4.2BR/EDR and BLE standards 2. NZIF receiver with -97dBm sensitivity 3. Class-1, Class-2 and Class-3 transmitters 4. Audio CVSD and SBC
Configuration software	LedOK Lite

Interface Labelling

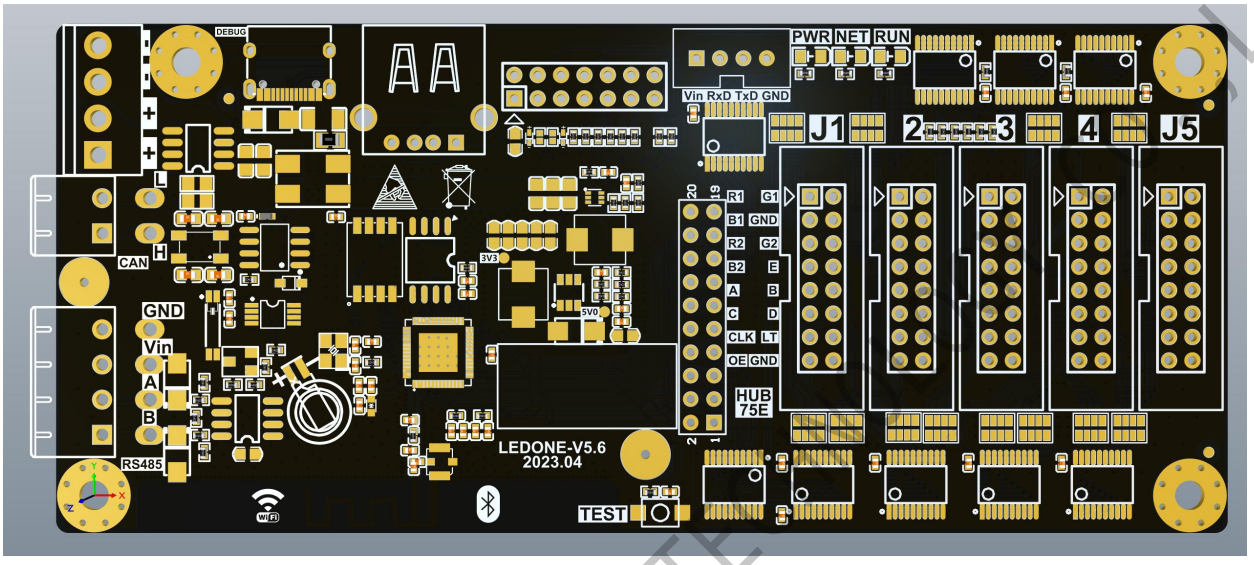


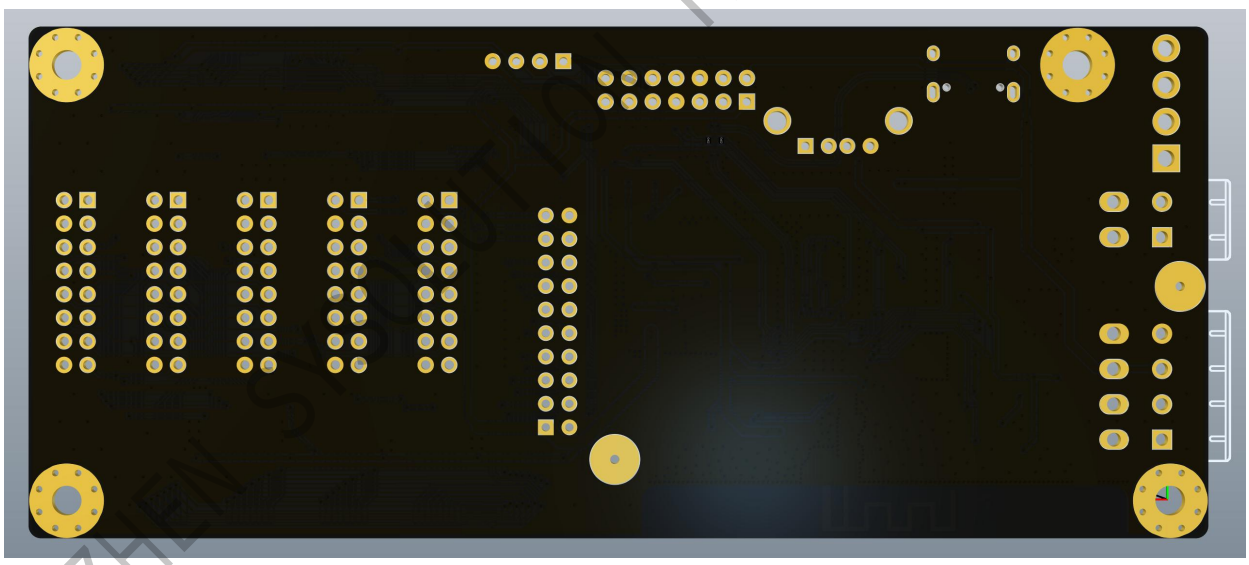
Working Conditions

Item	Parameters
Operating voltage	5V
Operating current (average)	80mA
Supply current (min)	500mA
Operating temperature	–40~85°C

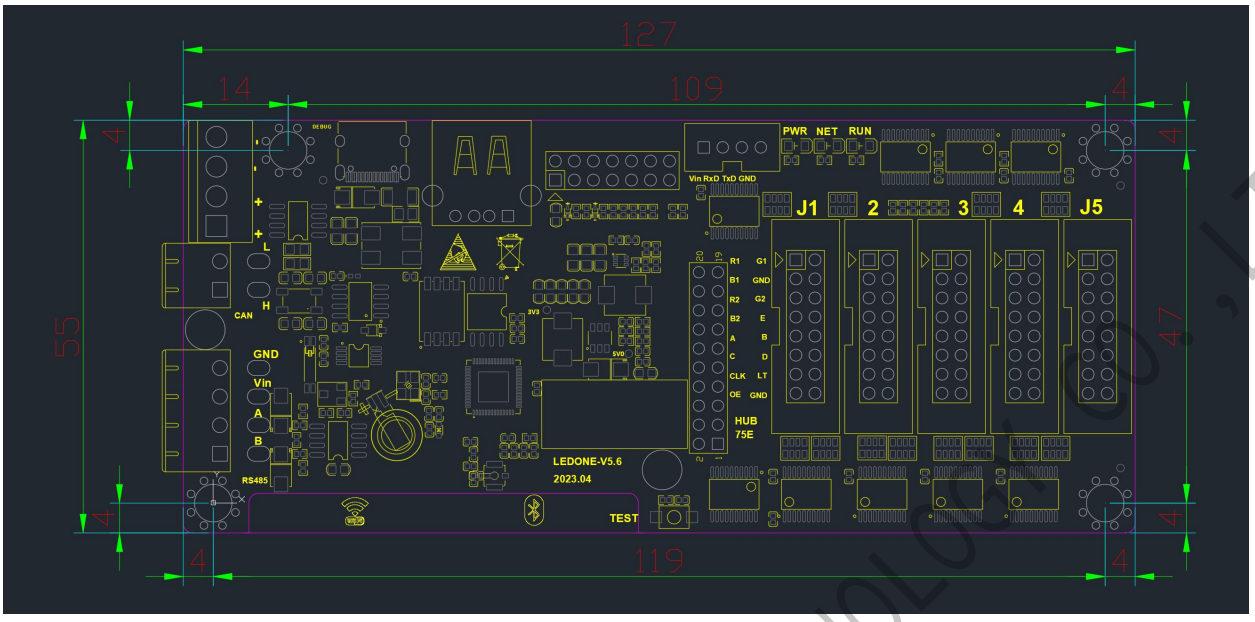
Dimension

Control card 3D diagram





Control dimension



Unit：mm

Note

1. For a grayscale effect, please use high refresh rate chip.
2. The power supply is 5V.
3. The antenna WIFI area has been cleared. Metal devices can interfere the use, it is recommended that there are no metal devices in the vicinity.