KittenBot®

未来板 Lite
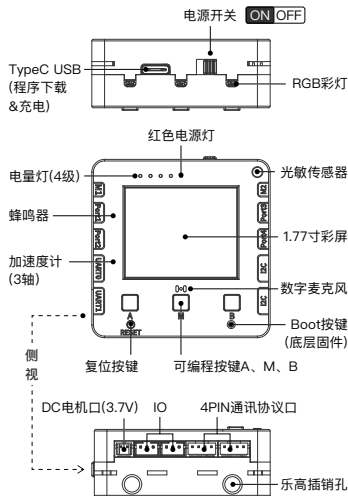Futureboard Lite

Wire it · Code it · Create it

产品介绍

未来板Lite依据信息科技新课标要求，是一款满足青少年学习、创意项目制作的可编程开发板。采用ESP32作为主控芯片，集成WIFI无线，板载常用传感器，搭载彩色屏幕，具有丰富多样的交互可能。产品包含兼容乐高积木的标准尺寸插销孔，自身有多个IO接口，可连接外部电子模块与执行器。你可以采用代码或Kittenblock图形化方式编写程序，创作思路的延展会变得更加轻松。
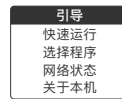
技术参数

- **ESP32-S3 主控**

  处理器：Xtensa双核32位LX7处理器
  主频：240MHz 时钟频率
  PSRAM：8MB
  Flash：8MB
  Wi-Fi协议：2.4 GHz (802.11 b/g/n)

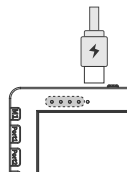- **供电方式**：内置750mAh锂电池 / Type-C USB
- **工作电压**：3.3V
- **最大工作电流**：500mA

资源图示

电源开关 ON OFF

TypeC USB
（程序下载
&充电）

RGB彩灯

红色电源灯

电量灯(4级)

光敏传感器

蜂鸣器

加速度计
(3轴)

1.77寸彩屏

数字麦克风

Boot按键
（底层固件）

侧视

复位按键

可编程按键A、M、B

DC电机口(3.7V)　IO　　4PIN通讯协议口

乐高插销孔

特点讲解

- **菜单：**

  在主控板启动时显示小喵开机图标时，按一下 **按键M**，即可进入菜单页面

引导
快速运行
选择程序
网络状态
关于本机

- **充电&电量指示：**

  顶部有5颗LED指示灯，其中左边4颗绿色是电量灯，电量越少亮灯越少。当灯数低于2颗时请注意充电。插入Type-C USB可以给未来板Lite供电也可充电。

- **固件更新模式：**

  连按2次 **复位按键**，主控板屏幕会显示一个特殊的彩色界面（固件更新界面）。如果误操作进入连这个界面，可以再按一下复位按键即可退出。一般是不需要更新固件的，详情请关注技术文档。

快速开始

① 插上USB，并打开未来板Lite电源开关

② 前往软件平台开启编程：
   网页版：kblock.kittenbot.cn
   客户端：前往官网下载

③ 扫码前往电子文档查看教程与案例
   如果无法扫码，可前往官网查看

- **执行标准**：GQ/XMKJ 001-2018
- **制造商**：深圳市小喵科技有限公司
- **地址**：深圳市光明区凤凰街道乐府广场1B 809
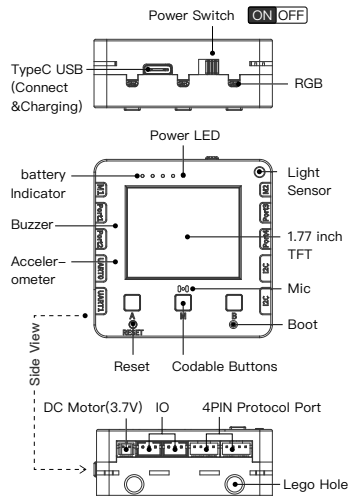- **官网**：www.kittenbot.cn

Introduction

Future Board Lite is a programmable development board that meets the needs of teenagers for learning and creative project production. It uses ESP32 as the main control chip, integrates WIFI wireless, has common sensors on board, and is equipped with a color screen, which has rich and diverse interaction possibilities.

Technical Parameters

- **ESP32-S3 Core**

  Processor：Xtensa dual-core 32-bit LX7

  Freq：240MHz

  PSRAM：8MB

  Flash：8MB

  Wi-Fi Protocol：2.4 GHz (802.11 b/g/n)

- **Power Supply：**Onboard Battery / Type-C

- **Operating Voltage：**3.3V

- **Operating Current：**500mA

Resources

Power Switch ON OFF

TypeC USB (Connect &Charging)

RGB

Power LED

battery Indicator

Light Sensor

Buzzer

Accelerometer

1.77 inch TFT

Mic

Boot

Side View

Reset

Codable Buttons

DC Motor(3.7V) IO 4PIN Protocol Port

Lego Hole

Quick Start

① Plug in the USB and turn on the power switch of Futureboard Lite

② start programming on Kittenblock：

Web: kblock.kittenbot.cn

Offline: Download on www.kittenbot.cc

③ Visit learn.kittenbot.cc for the user guide

- **Manufacturer：**

  Shenzhen Kitten Technology Co.,Ltd

- **Address：**

  Yuefu Plaza, Block 1B, Room 808-810, Fenghuang St., Guangming District, Shenzhen

- **Website：**www.kittenbot.cc

- **E-mail：**support@kittenbot.cc

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FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.