

LCSC Sky Star Dev Board

High-end version STM32F407VET6

◎ **Compatible with a variety of domestic and foreign 100-pin chips**

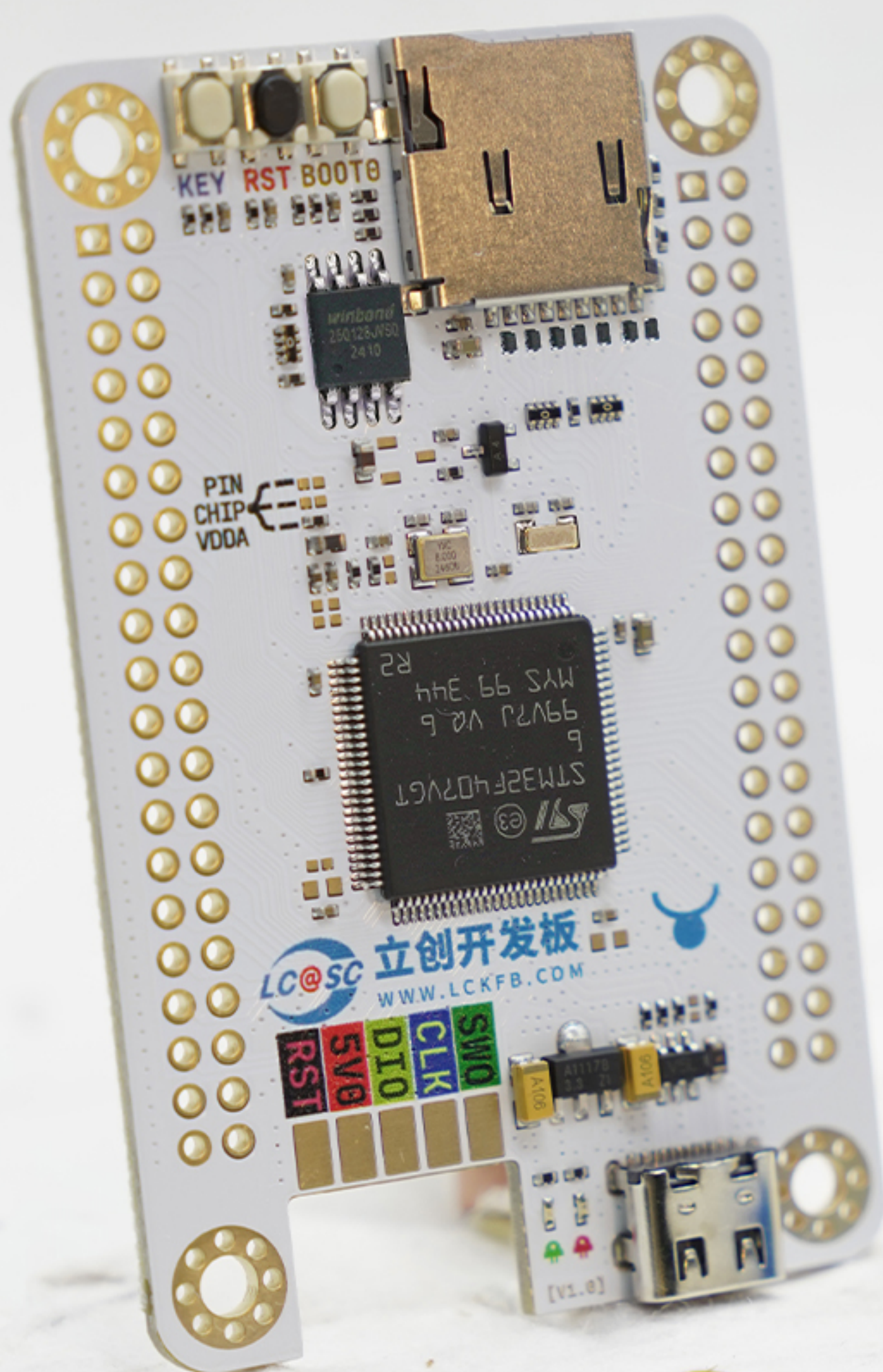
a board compatible with a hundred core, innovation in more than one piece!

◎ **Help project development**

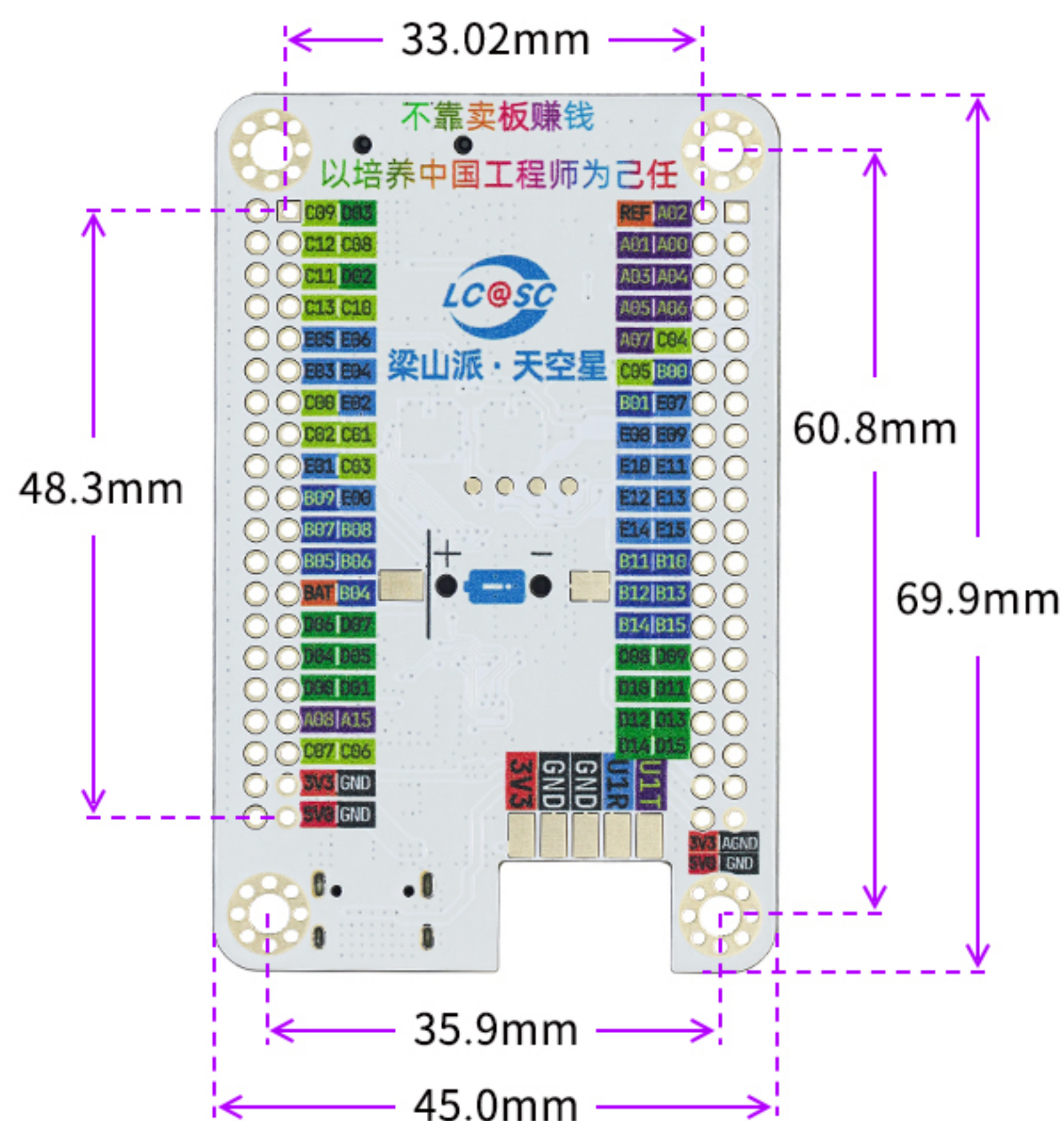
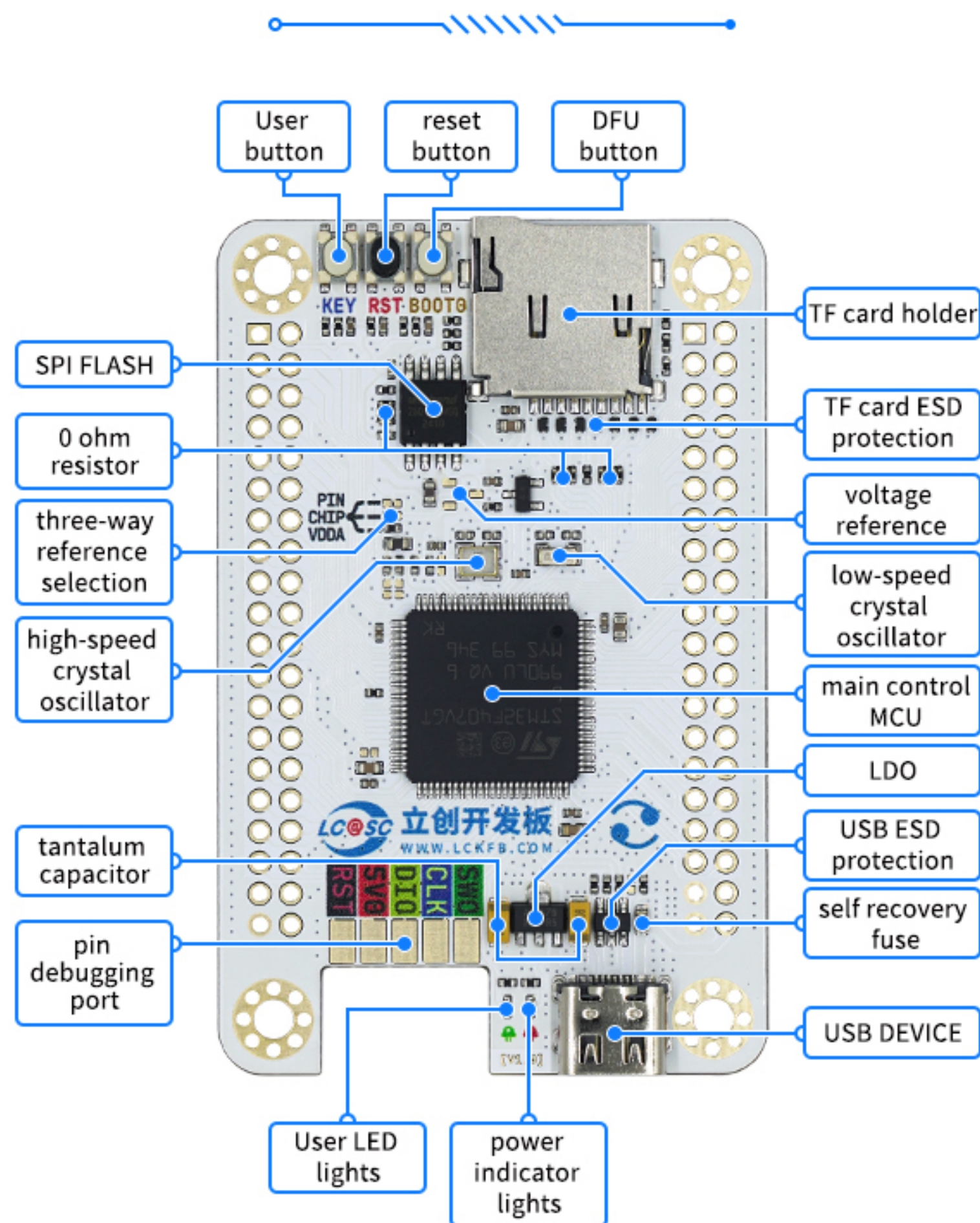
Pin-out 70PIN available IO, three-way voltage reference optional, to meet a variety of project development, suitable for electronic competitions, prototyping and DIY design for college students.

◎ **Colorful silkscreen**

Silk-screened pins are clearly identifiable, so don't fumble when looking for pins.



Development Board Resources, Dimensioned Drawings



Hardware parameters



Main control MCU
compatible with
dozens of 100 pin chip
microcontrollers



**High speed
crystal oscillator**



**Low-speed
crystal oscillator**



SPI FLASH



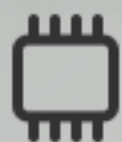
**Self elastic TF
card holder**



**TF card ESD
protection device**



LDO



**Voltage
reference**



**USB ESD
protection device**



Self healing fuse



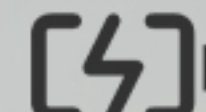
**Dual LED
indicator lights
(red and green)**



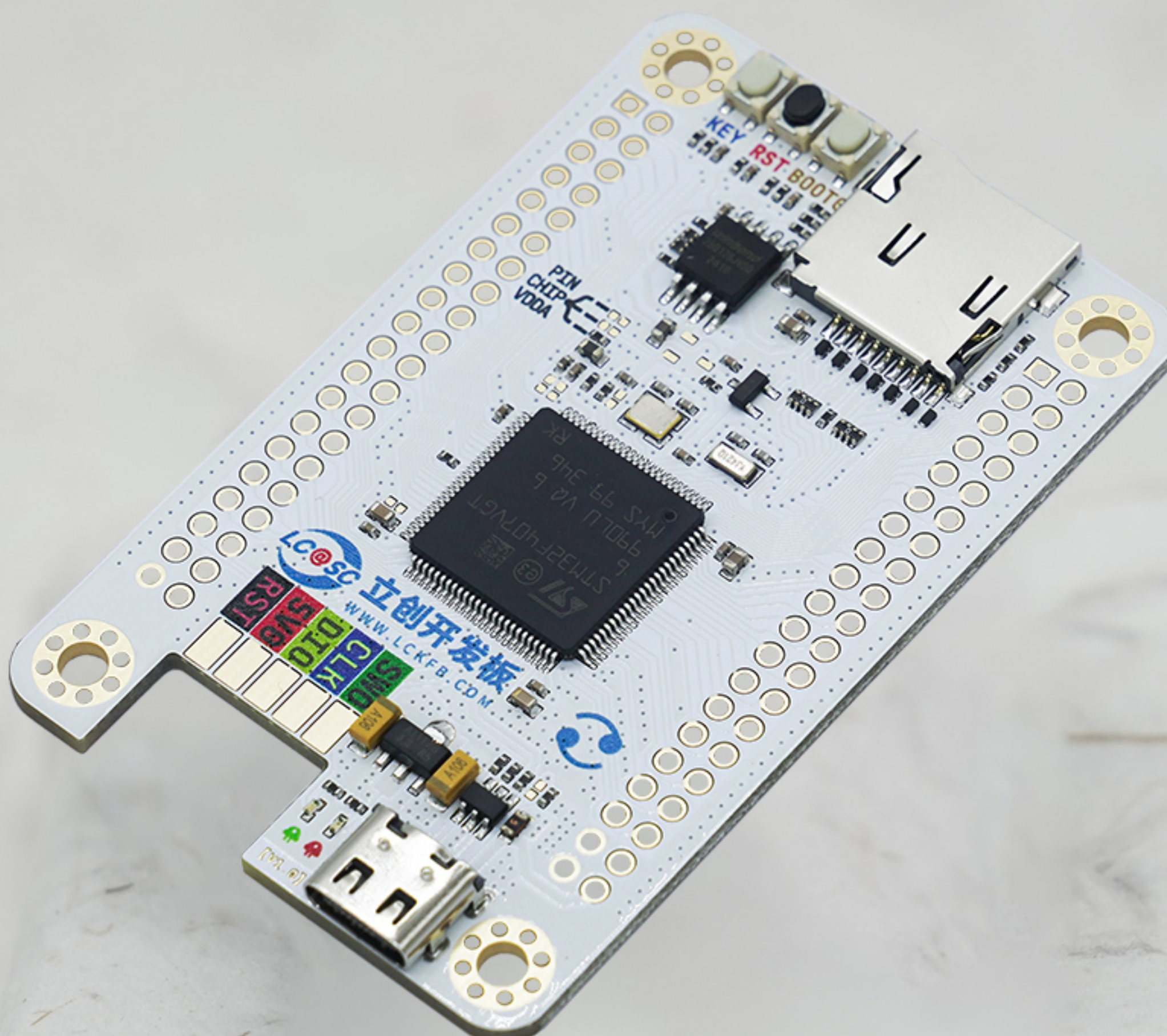
**TYPE-C
interface**



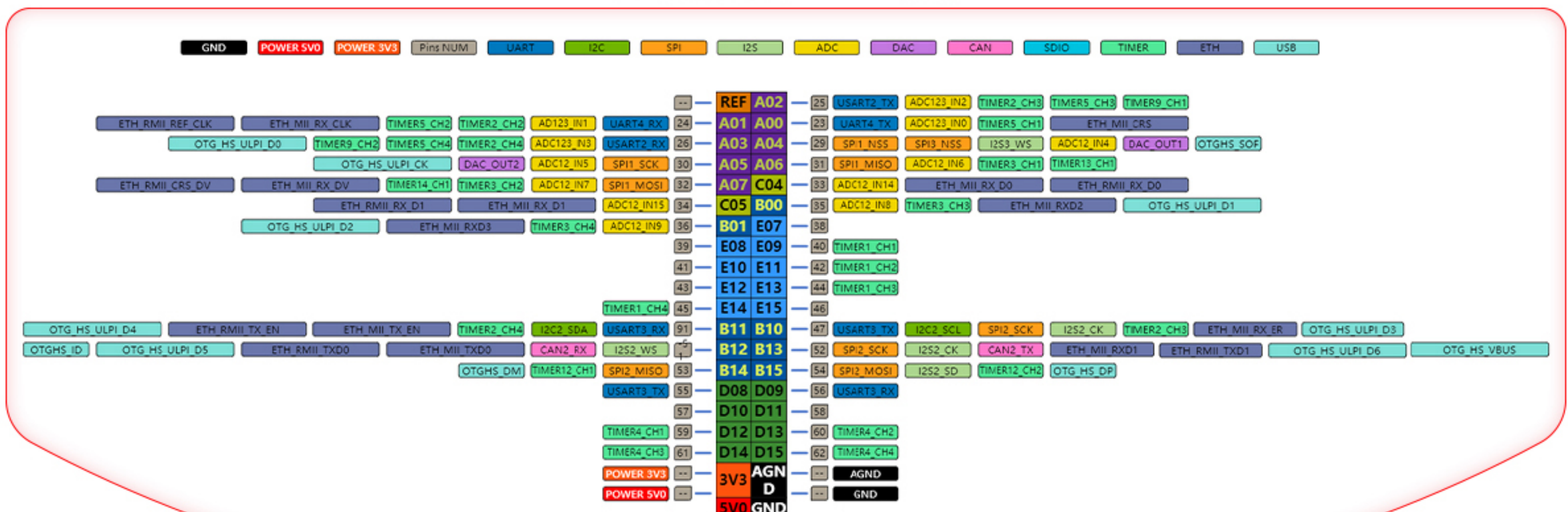
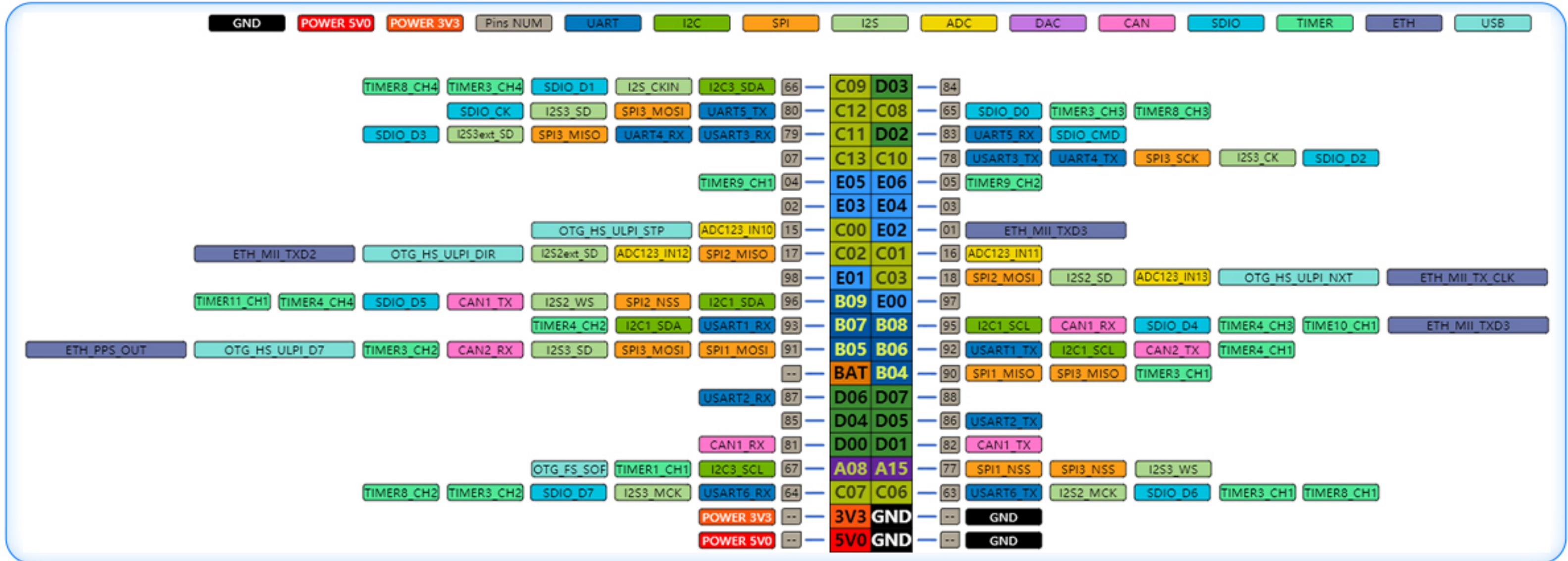
**Three touch
switches**



Battery base



Pin Definitions



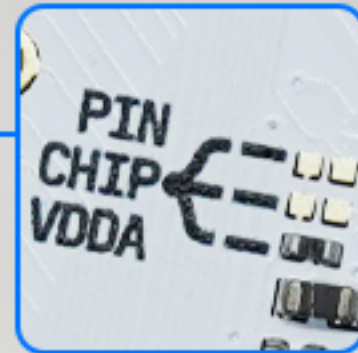
One board is compatible with 100 pins, innovation is more than one piece!

High-performance STM32F407VGT6 main control, compatible with dozens of domestic and foreign 100-pin chips, providing developers with flexible options and upgrade path.

One board with multi-functions, made for projects

Three-way reference power supply options

Three different reference voltage options are provided, which can be switched by 0 ohm resistors to meet users' needs for higher precision ADC acquisition.



Multiple circuit protection

comprehensive circuit protection design, USB data port electrostatic protection, clamp (overvoltage) protection, overcurrent protection, 5V anti-reverse connection.



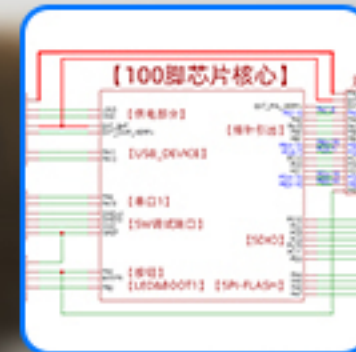
Separate pin-outs for SWD and serial ports

Dual LED indicators, TYPE-C connector, and three flick switches provide an intuitive operating experience.



Hierarchical schematic, intuitive view of resources

a clear display of the development board resources and pin assignment, easy to understand and use.



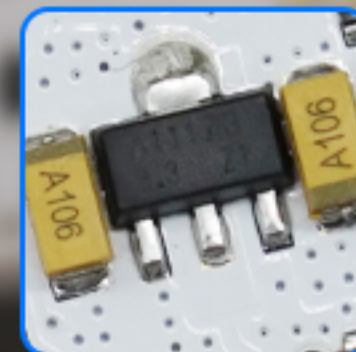
Expandable storage

Onboard TF card and SPI-FLASH (youth version is not affixed) provide unlimited storage space for creativity.



Stable power management

the use of LDO and reserved SOT-23 package high-precision voltage reference, equipped with capacitors to ensure the stability and efficiency of the power supply.



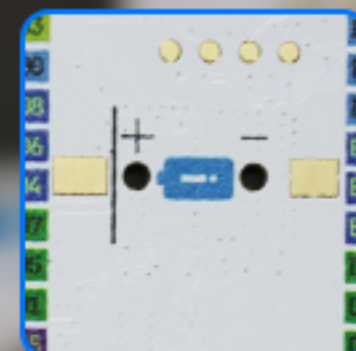
Stable clock system

Equipped with 8MHz high-speed crystal and 32.768KHz low-speed crystal to ensure the accuracy and stability of the system clock (youth version of the low-speed crystal is not affixed).



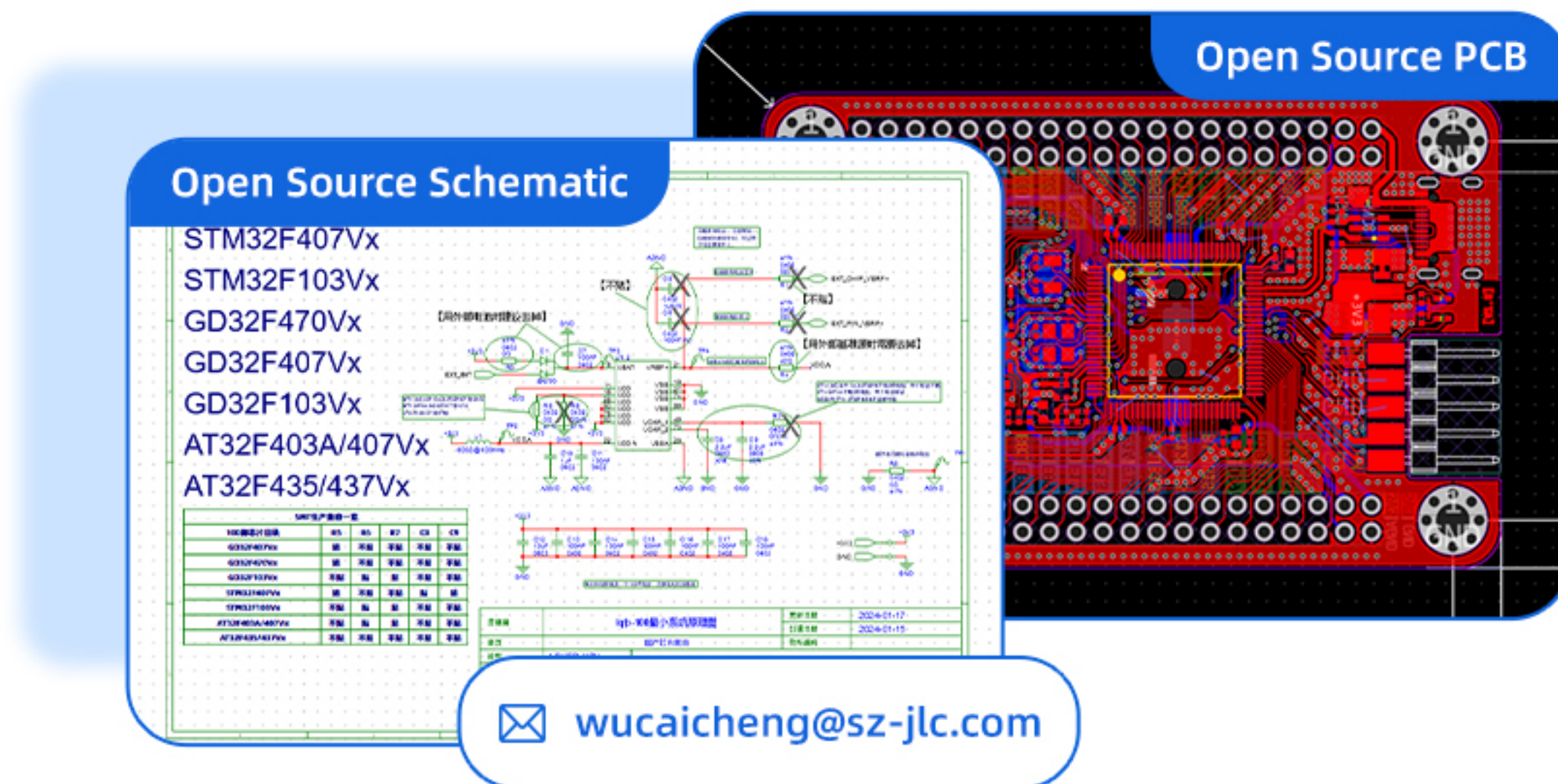
Reserved backup battery holder

Provide backup power for the development board, convenient for RTC power-down time.



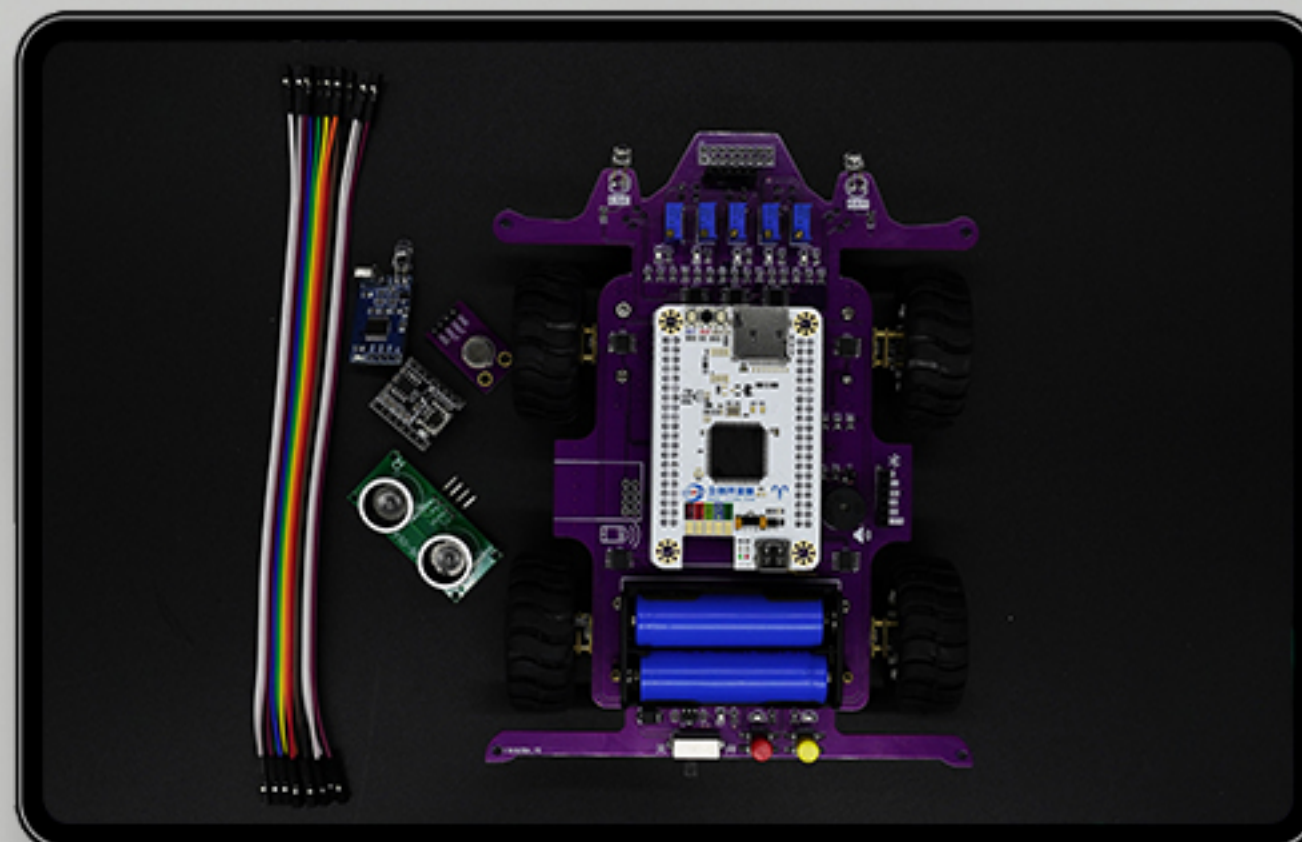
Abundant hardware and software reference materials

All supporting materials are provided free of charge, to help you grow every step of the way!



Project-based learning

Combination of hardware and software, through personal participation in the demand analysis, hardware design, programming, and 3D shell design. You can experience the whole process of the project , to master the project-style development. Solve the difficulty of project implementation, so that every idea becomes reality.



Requirements
Analysis



Hardware
Design



Programming



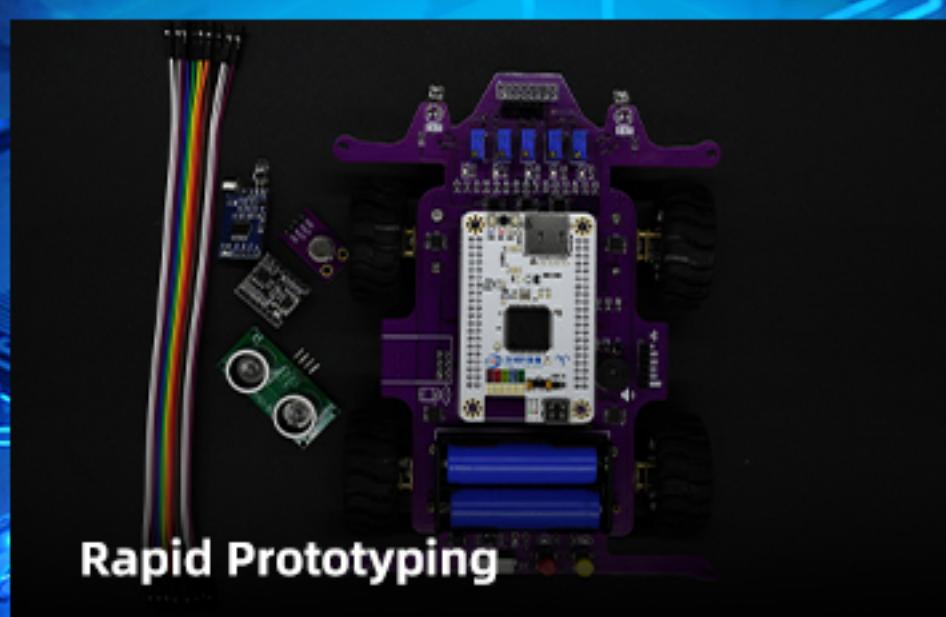
3D Case
Design



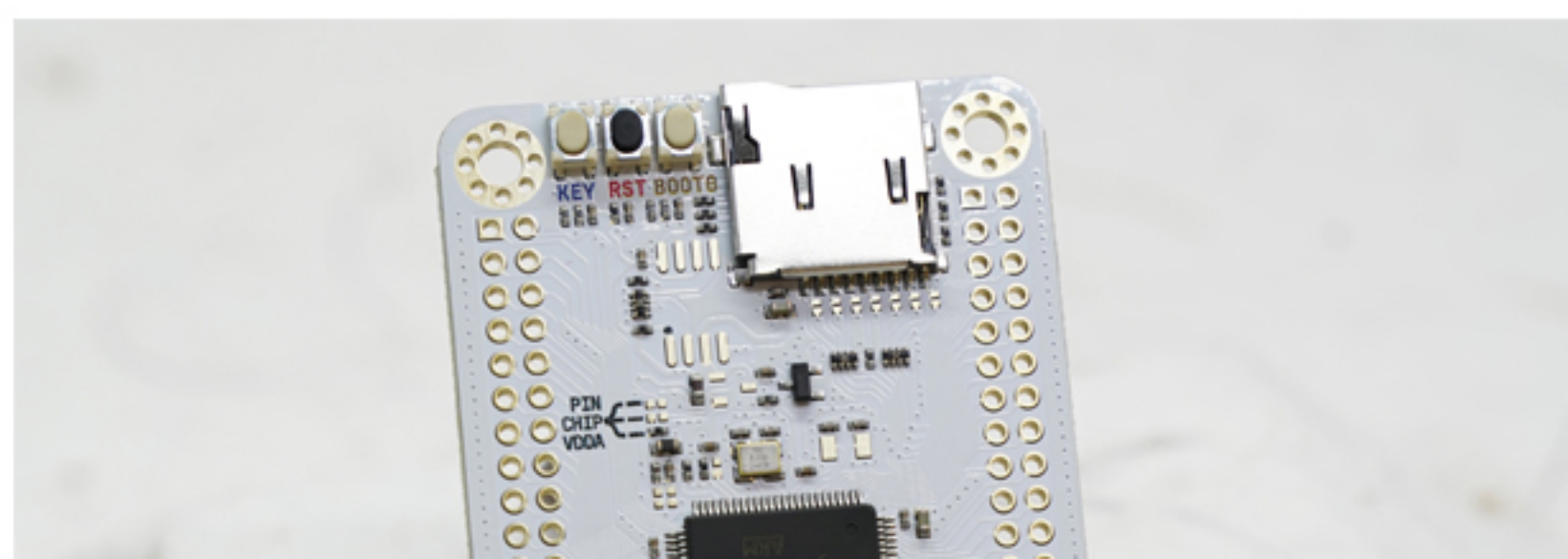
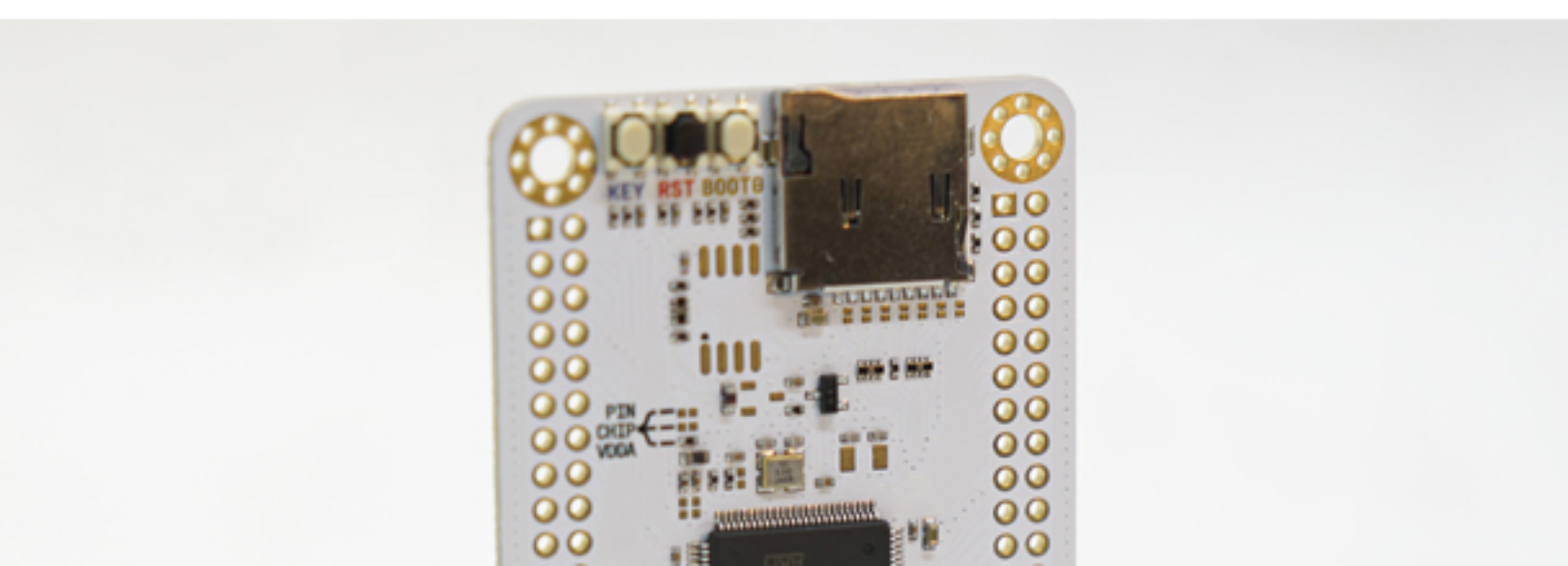
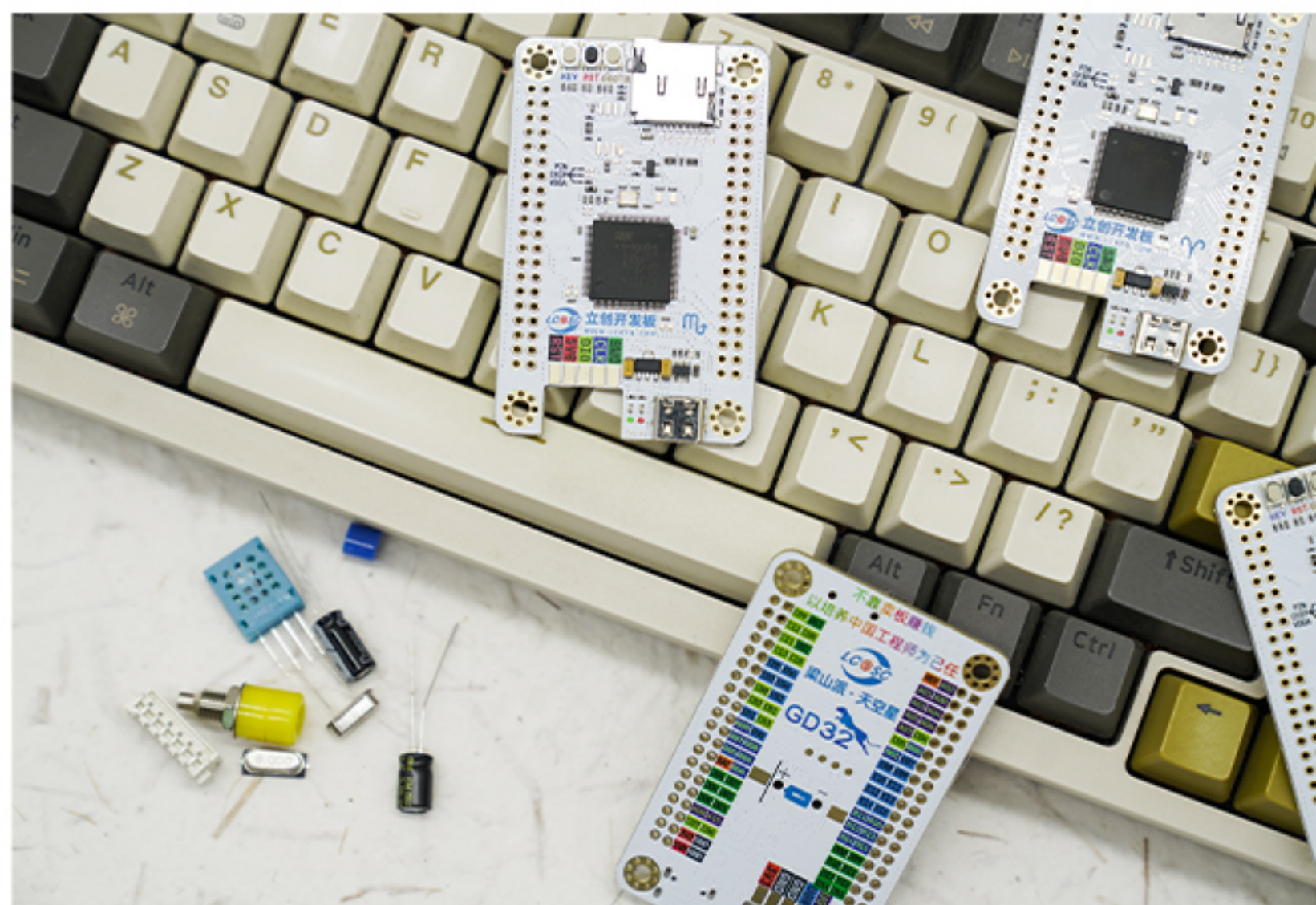
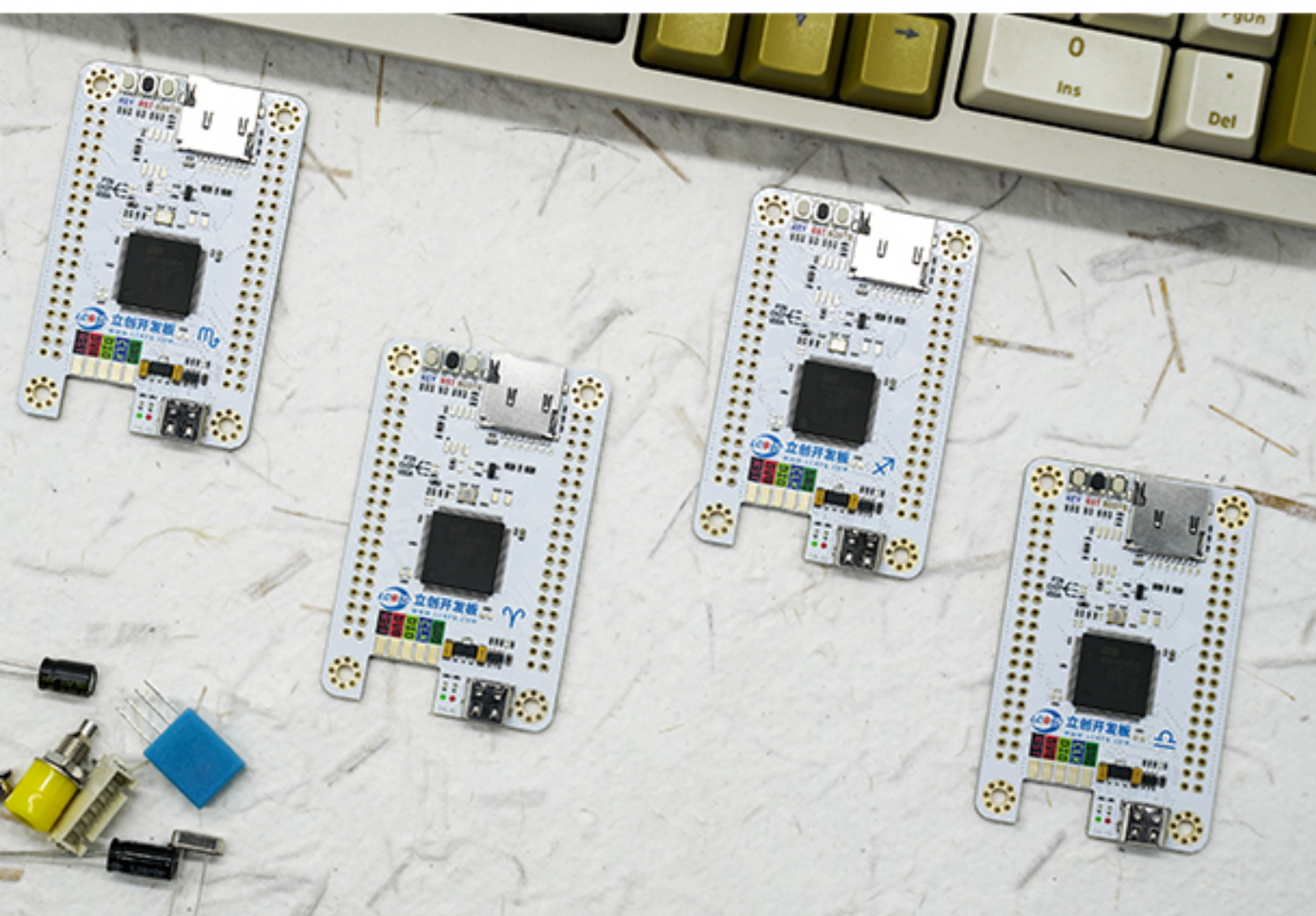
Foundation
Project

Wide range of application scenarios

Meet the different needs of various fields, with strong development performance



Product Showcase



Bonus Scene

The 12 signs of the Zodiac are included in the package, which is unique and full of personality.



SkyStar STM32F407 Version Shipment Details

差异物料名称	天空星青春版	天空星高配版
【1】 SPI FLASH	不贴不送	贴
【2】 TF卡ESD防护	不贴不送	贴
【3】 低速外部高精度晶振	不贴不送	贴
【4】 左外扩排针P1 2*20PIN排针	不焊不送	不焊不送
【5】 右外扩排针P2 2*20PIN排针	不焊不送	不焊不送
【6】 调试排针2*5PIN排针	不焊不送	不焊不送
【7】 电压基准芯片	不贴不送	贴
【8】 RTC电池座CR1220	不焊不送	不焊不送

※以实际活动为准

SMT Production Compatible List

100脚芯片目录	R5	R6	R7	C8	C9
GD32F407Vx	贴	不贴	不贴	不贴	不贴
GD32F470Vx	贴	不贴	不贴	不贴	不贴
GD32F103Vx	不贴	贴	贴	不贴	不贴
STM32F407Vx	贴	不贴	不贴	贴	贴
STM32F103Vx	不贴	贴	贴	不贴	不贴
AT32F403A/407Vx	不贴	贴	贴	不贴	不贴
AT32F435/437Vx	不贴	不贴	不贴	不贴	不贴
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