

**Danh sách chuẩn bị**



Phần mềm sử dụng trong khóa học:

- CubeMX và KeilC: <https://khuenguyencreator.com/cai-dat-stm32-cubemx-va-keil-c/>
- Cài Package STM32: <https://khuenguyencreator.com/cai-dat-package-cho-cubemx-va-keil-c/>
- Hercules Terminal: <https://khuenguyencreator.com/huong-dan-hercules-terminal/>
- Salease Logic Analyzer: <https://www.saleae.com/downloads/>

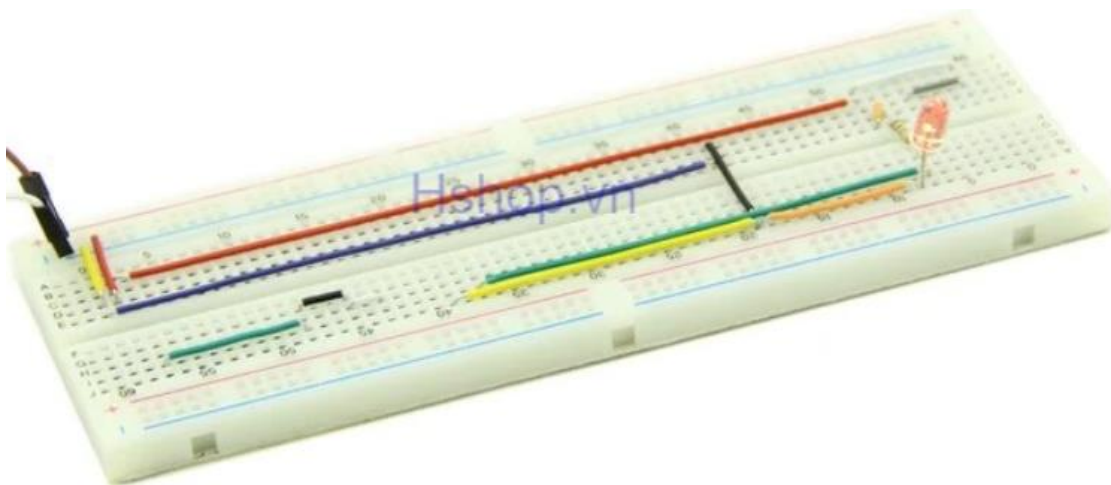
# Phần cứng

Phần cứng chuẩn bị:

- KIT STM32F103C8T6 Blue/black pill + Mạch nạp
- Mua ở bất kì cửa hàng nào hoặc shopee



- Board cắm + dây dẫn + Led 5mm + trở 100 Ohm + nút nhấn 4 chân 6x6x6



**Phần cứng**



- [www.hshop.vn](http://www.hshop.vn)



- I2C: <https://hshop.vn/products/mach-chuyen-giao-tiep-lcd1602-lcd1604-lcd2004-sang-i2c>



- 

# Phần cứng



KHUÊ NGUYỄN CREATOR  
Chia sẻ đam mê

- LCD ST7735: <https://nshopvn.com/product/man-hinh-lcd-tft-1-8-inch-st7735-giao-tiep-spi/>



- Tay điều khiển hồng ngoại + Module hồng ngoại 1838T
- Link mua hàng: <https://hshop.vn/products/module-dieu-khien-hong-ngoai-tu-xa>



- Salease Logic Analyzer

Link mua hàng: <https://hshop.vn/products/mach-usb-saleae-8ch-24mhz-logic-analyzer>





Tài liệu sử dụng:

- STM32F103c8t6 datasheet: <https://www.st.com/resource/en/datasheet/stm32f103cb.pdf>
- STM32F103 Reference Manual: [https://www.st.com/resource/en/reference\\_manual/cd00171190-stm32f101xx-stm32f102xx-stm32f103xx-stm32f105xx-and-stm32f107xx-advanced-arm-based-32-bit-mcus-stmicroelectronics.pdf](https://www.st.com/resource/en/reference_manual/cd00171190-stm32f101xx-stm32f102xx-stm32f103xx-stm32f105xx-and-stm32f107xx-advanced-arm-based-32-bit-mcus-stmicroelectronics.pdf)