

Pin Mappings

STM32 -> Toshiba CCD

GND -> Pin 22 - SS

3V3 -> Pin 1 - V_DD and Pin 2 - V_AD

PA0 -> Pin 3 - ICG

PA2 -> Pin 5 - SH

PA3 -> Pin 21 - OS

PA6 -> Pin 4 - ΦM

STM32 -> HC-05

PA9 -> Pin 5 - RXD

PA10 -> Pin 4 - TXD

MB102 Power Supply -> STM32

From MB102's J6 (Top of board) 8-PIN section

Pin 1 - 3.3V -> 3V3 (next to pins 34 and 37)

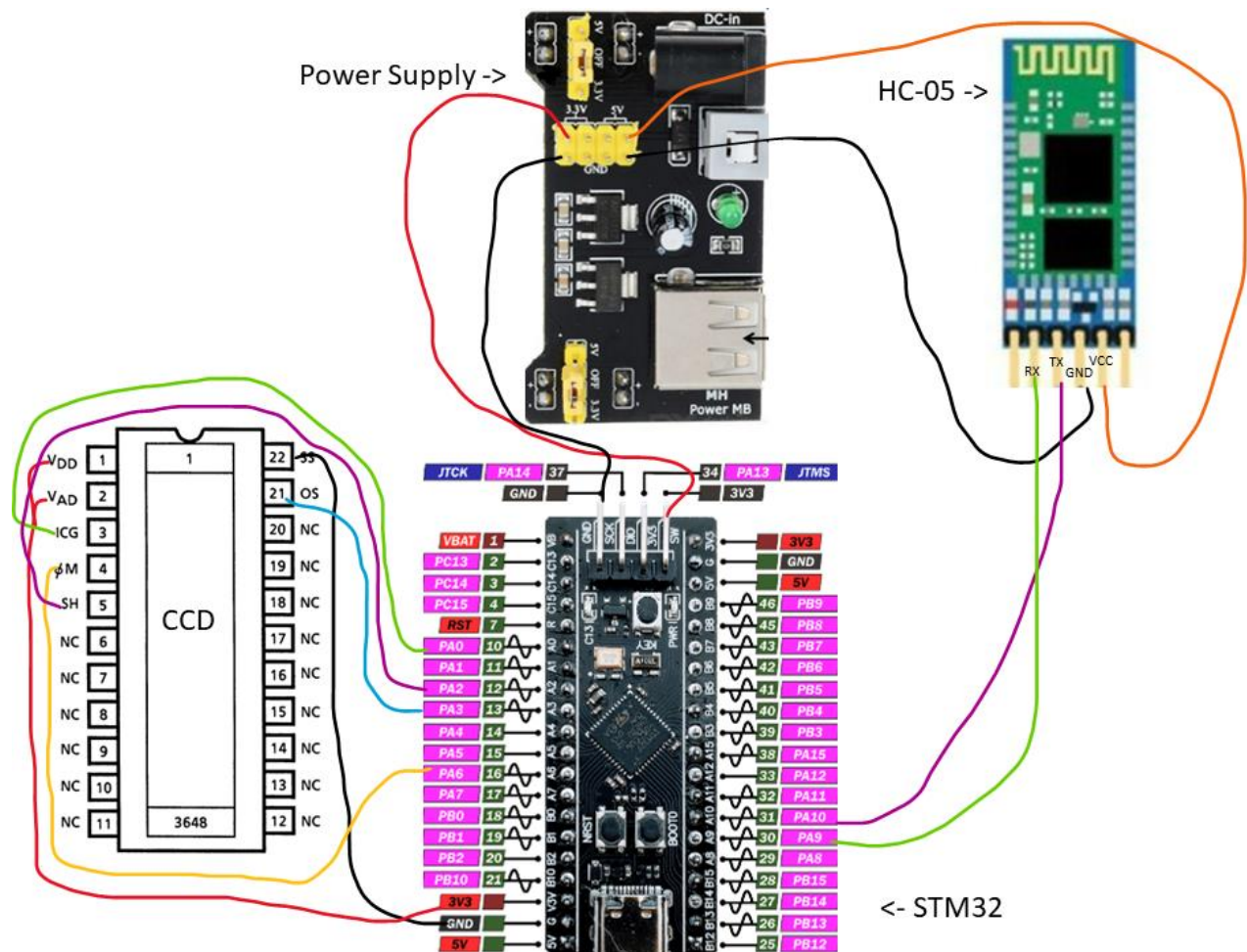
Pin 2 - GND -> GND (next to pins 34 and 37)

MB102 Power Supply -> HC-05

From MB102's J6 (Top of board) 8-PIN section

Pin 7 - 5V -> Pin 2 - VCC

Pin 8 - GND -> Pin 3 - GND



References

Toshiba TCD 1304DG Datasheet:

<https://www.spectralproducts.com/pdf/ToshibaTCD1304.pdf>

HC-05 Schematic:

<http://www.hiletgo.com/ProductDetail/2152062.html>

Power Supply Datasheet:

<https://www.handsontec.com/dataspecs/mb102-ps.pdf>

STM32F401 Board Pinout

<https://mischianti.org/wp-content/uploads/2022/02/STM32-STM32F4-STM32F401-STM32F401CCU6-pinout-high-resolution.png>

STM32 More info

<https://mischianti.org/weact-stm32f401ccu6-black-pill-high-resolution-pinout-and-specs/#Datasheet>

stm32f401 chip datasheet

<https://www.st.com/resource/en/datasheet/stm32f401cb.pdf>