

Wiring Method for DWIN Products and ESP32 Development Board

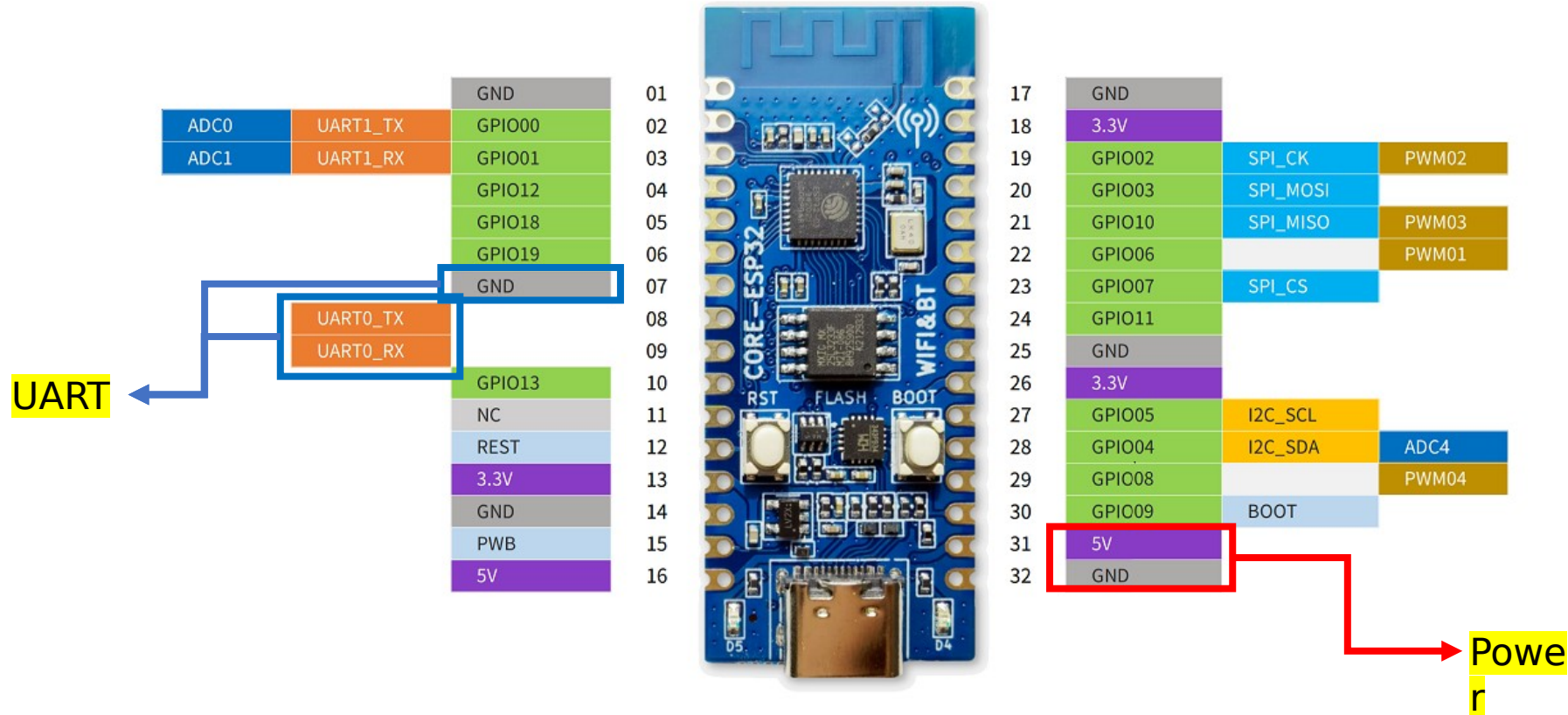
2022.6.22

Catalogue

- 1. Pin description for ESP32 C3**
- 2. Wiring 10pin&1.0mm pitch connector**
- 3. Wiring 8pin&2.0mm pitch connector**
- 4. Wiring 8pin&3.81mm pitch connector**
- 5. Wiring 6pin&2.54mm vertical socket**
- 6. Wiring COF structure display**
- 7. Wiring development board**

1. Pin description for ESP32 C3

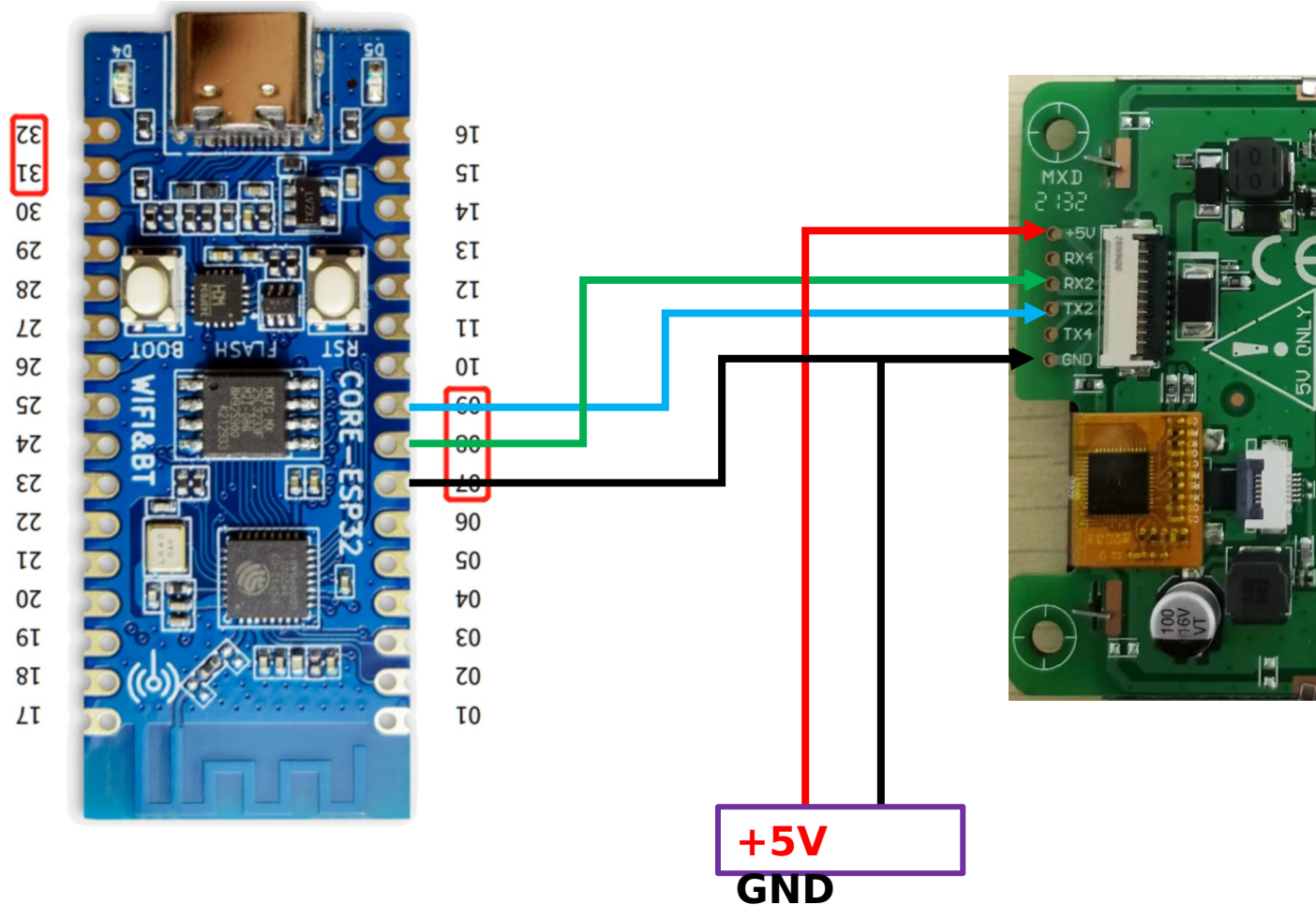
This ESP32 C3 development board have 2 UARTs. The 2 UARTs are TTL level and we will use UART0 to communicate with DWIN displays. And we need to power the board independently.



2. Wiring 10pin&1.0mm pitch connector

Please wiring them as below.

5V DC
power

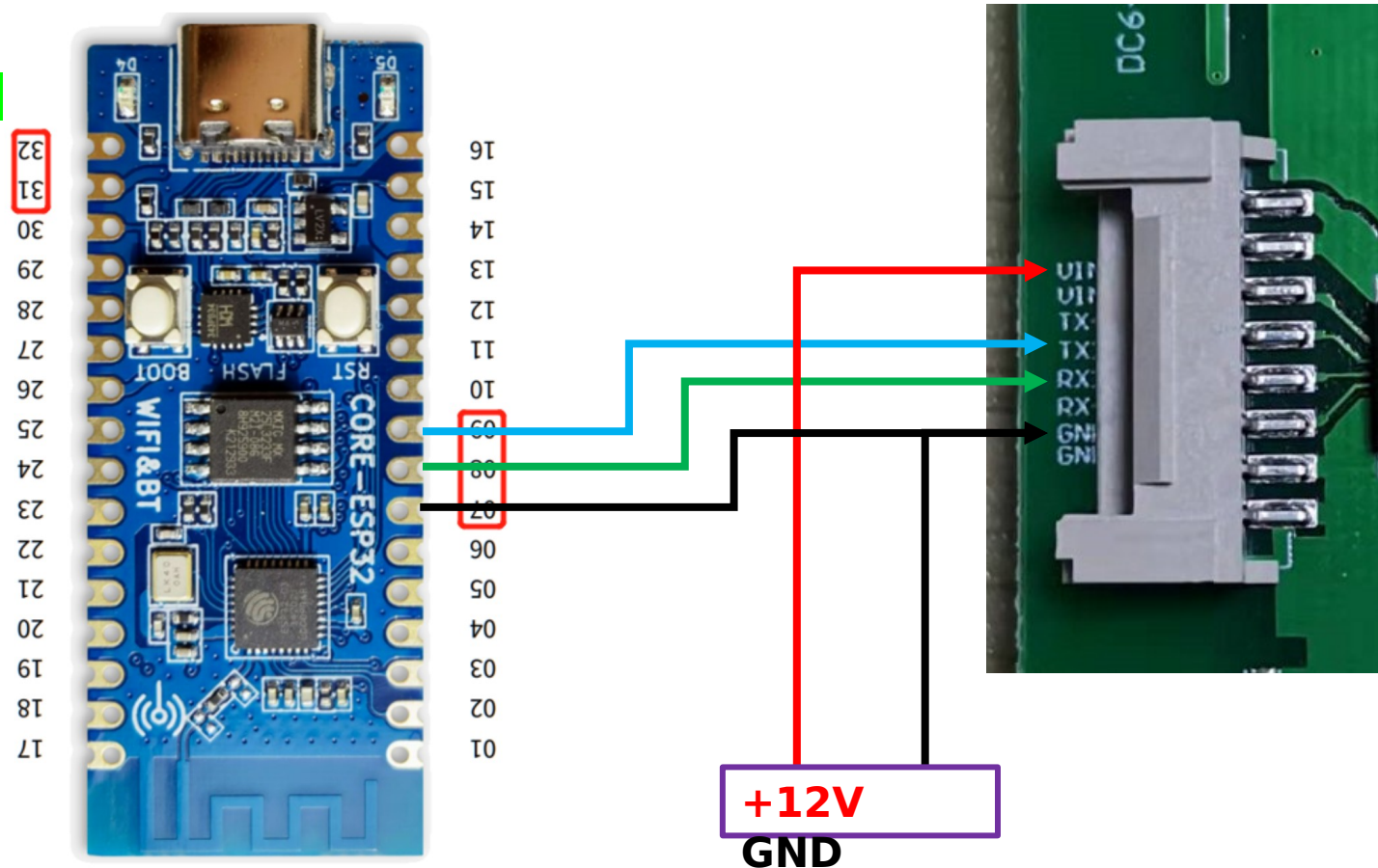


3. Wiring 8pin&2.0mm pitch connector

Switch the displays level to TTL. If the display cannot switch the level, you will need a conversion board to do that.

A. Without conversion board :

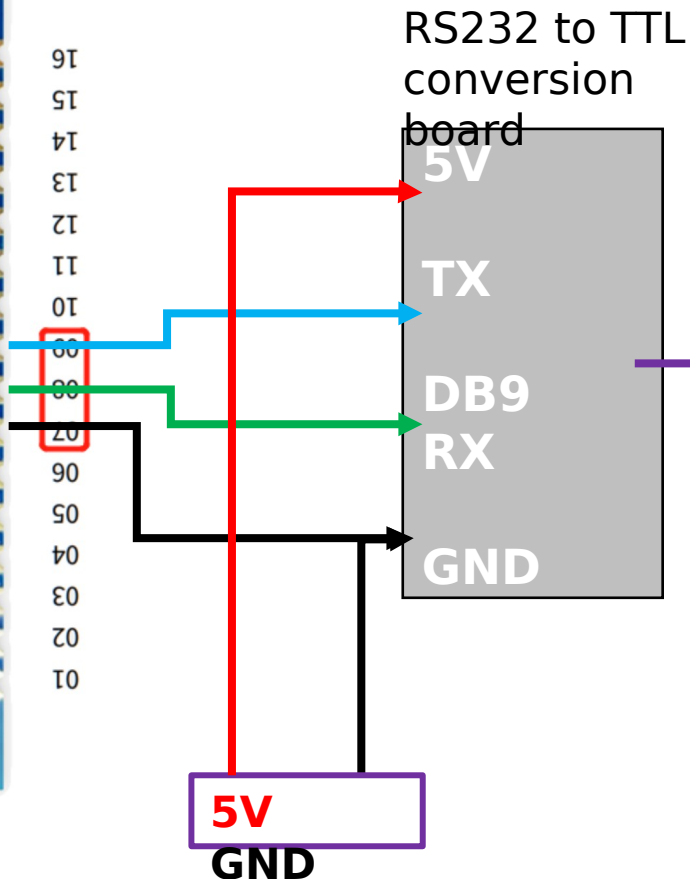
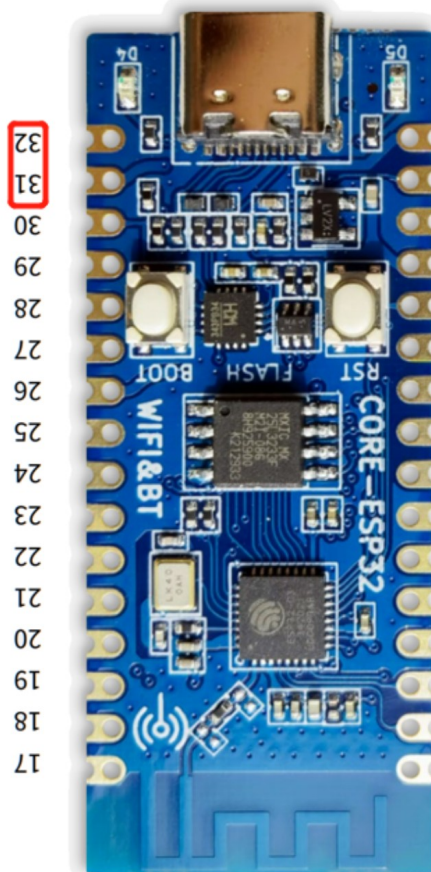
5V DC
power



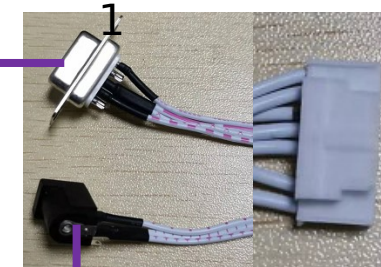
3. Wiring 8pin&2.0mm pitch connector

B. With conversion board:

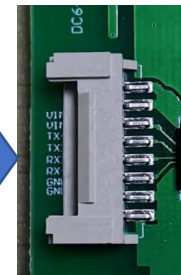
5V DC
power



HDL6501

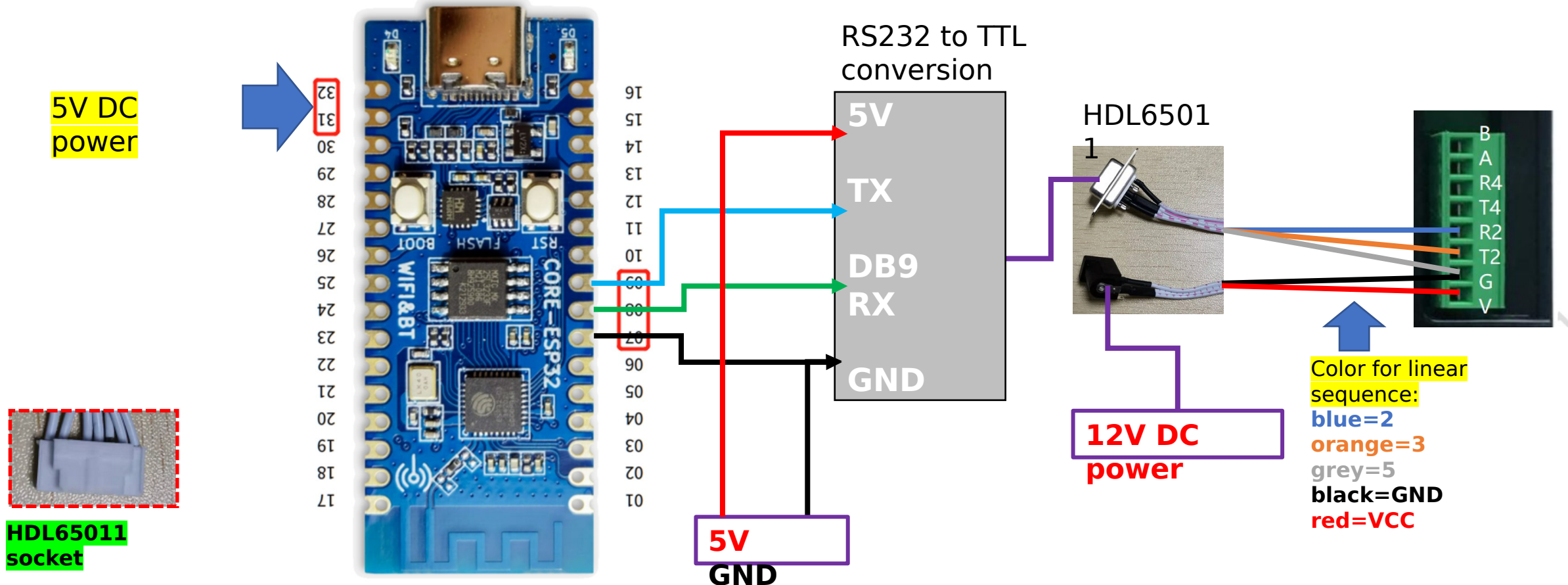


12V DC
power



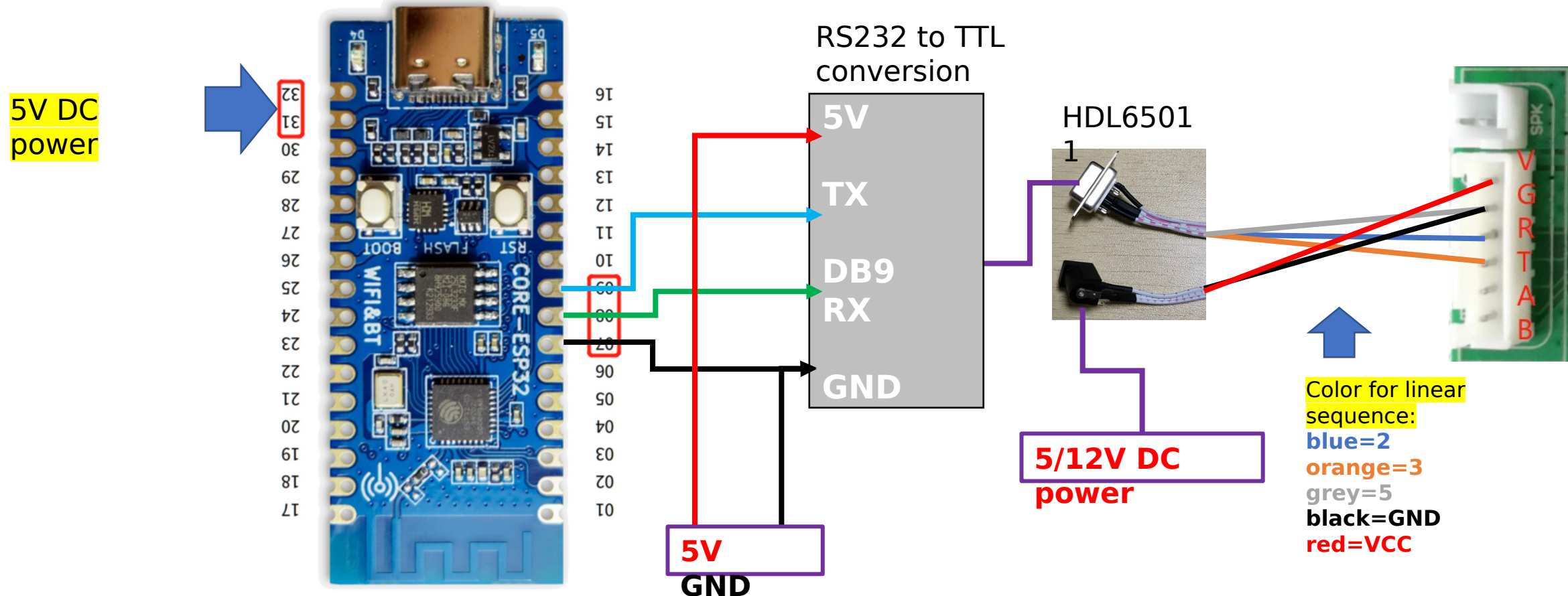
4. Wiring 8pin&3.81mm pitch connector

This kind of displays will use RS232 level, so we must use a conversion board. For your convenience to wiring, you can take off the socket of HDL65011.



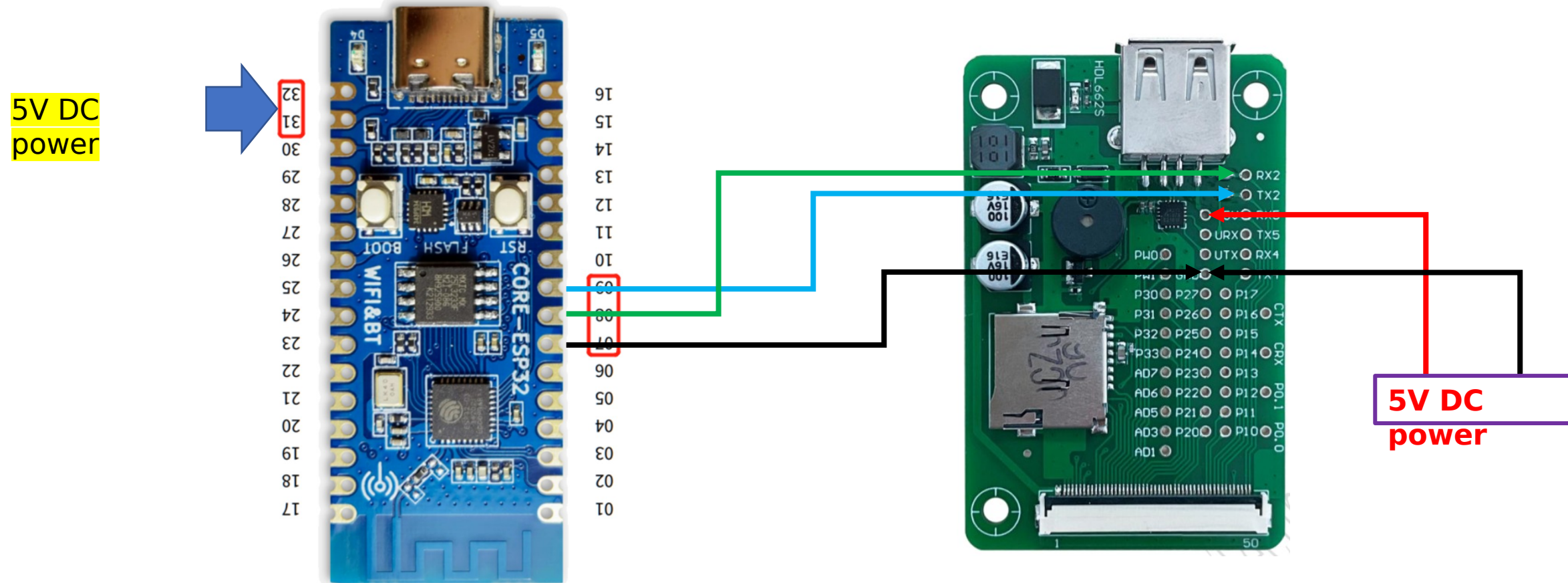
5. Wiring 6pin&2.54mm pitch vertical socket

Non-TTL level display of vertical socket will need conversion board. This socket will use special plug to wiring. You can also take off the socket of HDL65011, use the wires to plug in.



6. Wiring COF structure display

COF display has a official adaptor, this adaptor could use to communicate with PC. Because the via holes are connect to T5L kernel, so all UARTs are both TTL level. We can plug in as below.



7. Wiring development board

A development board is a special DWIN serial port display. They have a independent DC power, and almost all hardware resources have been leaded out. You can plug in the via holes as below to communicate.

