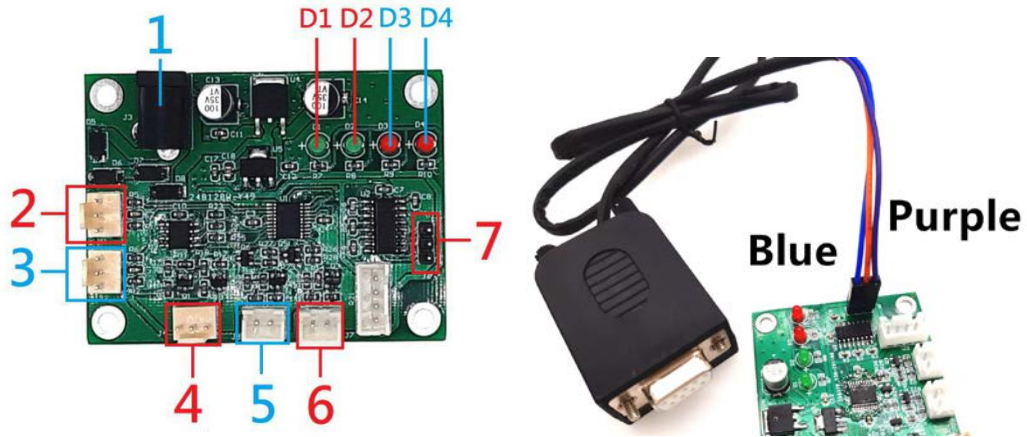
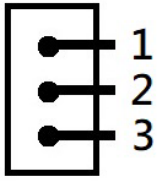
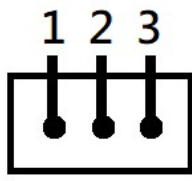
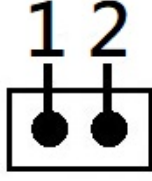
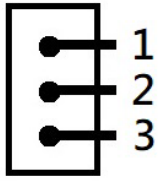


## Control board Introduction



- 1: DC 12V 5.5\*2.1mm
- 2: Pulse input 1: Channel 1
- 3: Pulse input 2: Channel 2
- 4: output 1 pulse when receive order
- 5/6: output/no output 5V when receiver order
- 7: RS232 connector
- D1: light when staying power on
- D2: flash when sending 1 pulse
- D3: light when 5&6 outputing 5V
- D4: light after receive first order.

### Connection Detail

2/3	4	5/6	7
			
1: GND(Black) 2: Signal (White) 3: DC+12V (Red)	1: DC+12V (Red) 2: Signal (White) 3: GND(Black)	1: DC+5V (Red) 2: Signal (White)	1: G 2: TXD 3: RXD

### Connection Define



- **Specification:**

(9600,N,8,1)

Power consumption: 50MA

Baud rate: 9600

Send Display: Char Format

Parity Bit: NONE

Receive Display: Hex Format

Data Bit: 8

Stop Bit: 1

- **Construction:**

Head (1) + Len (1) + Data (LEN) + XOR (1) + TAIL (1)

Head (1): 0xF2

Len (1): Data Length

Data (Len): Length is based on Len (1)

Xor (1): From Len (1) to Data (Len)

Tail (1): 0xF3

- Send data when receive pulse in 100MS

Len (1): 03

Data: Channel (1) +Pn\_LL(1) +Pn\_HH(1)

Note: Low position first then high position.

Data = CMD (1) + Result (1)

CMD (1): Respond "order byte", 1 byte

Result (1): Respond order result. 0x00 indicates success.

If value is not 0x00, it indicates fail.

- **Order Detail**

No.	Action	Receive
1	"5&6": Output/ no output 5V	F2 01 30 31 F3
	Success Respond: F2 02 30 00 32 F3	
2	"4": output 1 pulse	F2 01 31 30 F3
	Success Respond: F2 02 31 00 33 F3	
3	Check total income (Channel 1+2)	F2 01 32 33 F3
	Success Respond: 32(1)+count 1 (4)+count 2(4)	
4	Reset inbuilt counter	F2 01 35 34 F3
	Success Respond: F2 02 35 00 37 F3	