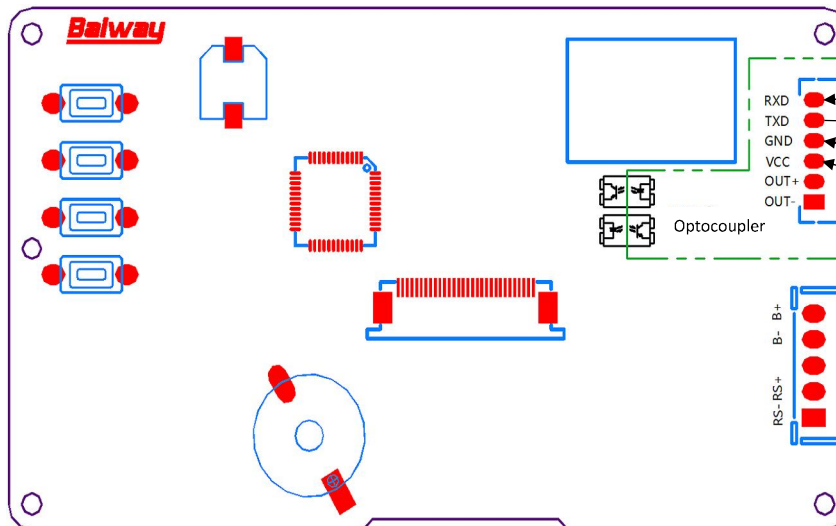




TF03K TTL serial communication protocol specification

Baud rate :	9600Kbps	Data:8bit	Stop:1bit	Parity check: None
Bytes :	16 bytes each time			
Interval :	One second	Only send when coulometer working(Backlight on)		
Interface level :	TTL level 3-5V	VCC and GND must be powered by the external power,the required current is 5-10mA		
Isolation method :	Solid-state Optocoupler			
Check sum:	8 bit cumulative sum from the first byte to fifteenthbyte			

Byte num:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Meaning:	Index bytes	Capacity percentage	Total battery voltage (V)		Real time battery capacity (mAh)			Current (mA)				Remaining time (S)			Check	
Hex:	A5	02	07	D0	00	00	0A	87	00	00	24	05	00	94	11	xx
Example:	A5	0x02=2%	0x07D0=2000=20.00V		0x0000 0A87= 2695mAh=2.695Ah			0x0000 2405=9221mA=9.221A				0x00 9411=37905S=10H:31M:45S				
Range:	A5	0 ~ 100%	0 ~ 500.00V		0.1Ah ~ 5000Ah			-750000mA ~ +750000mA(负值为补码)				00:00:00 ~ 99:59:59				



- RXD : TF03 receive pin(if only need data of TF03 , this pin can disconnect)
- TXD : TF03 transmission pin
- GND : Ground
- VCC : Power supply voltage 3-5V, 5-10mA (Must be powered by external power)

Note: VCC and GND must connect to external power.
The interface is not RS-232. So it can't be connected directly. It must be TTL level.