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Guidelines for Using Commonly Used Tools

Standard Operating Procedures-RS232-(EV Charger)

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Technical Support Document

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1 Introduction

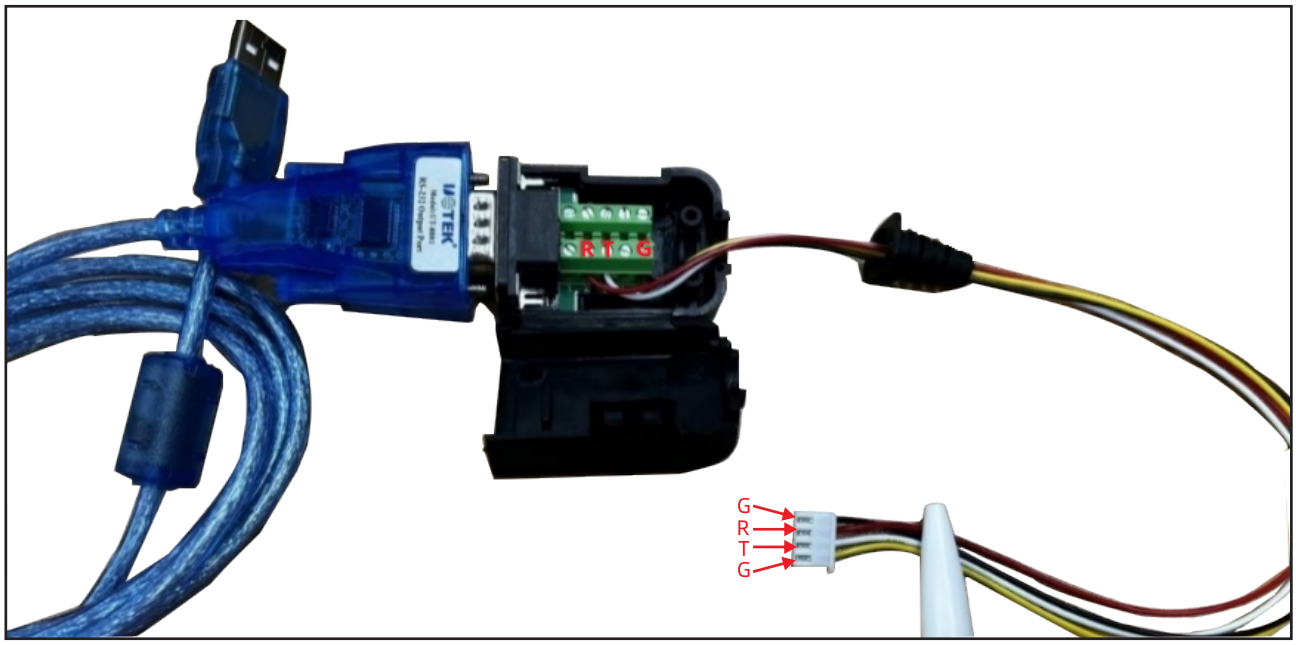
RS232 Cable is a serial communication cable that typically connects EV Chargers with external devices for short-distance data exchange and debugging.

To conduct better fault analysis, we need to use the log capture tool RS232 to obtain logs and then carry out detailed analysis when we are unable to distinguish specific error messages through the screen or appearance.

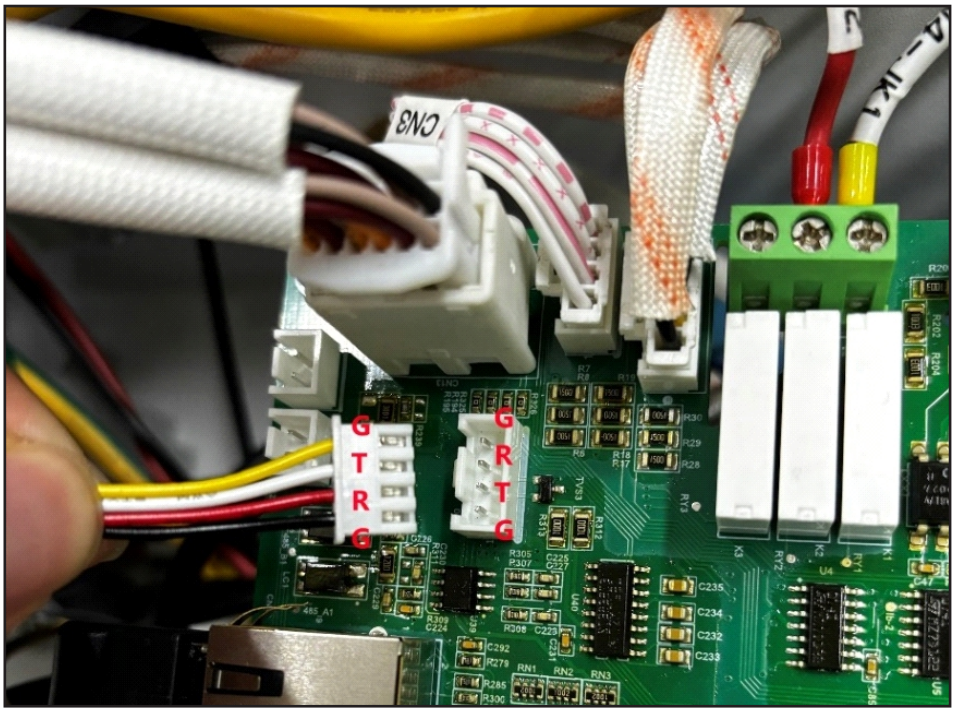
The following is a detailed process on how to use RS232 to print data log.

2 Operating Procedure

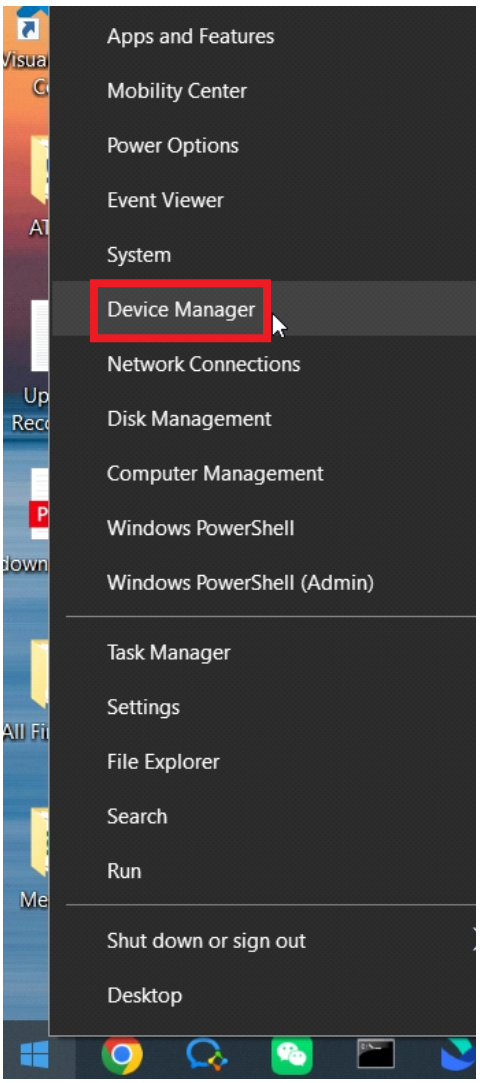
1. At first, we need to prepare RS232 debug tools, connect it to the 4 pin connector.



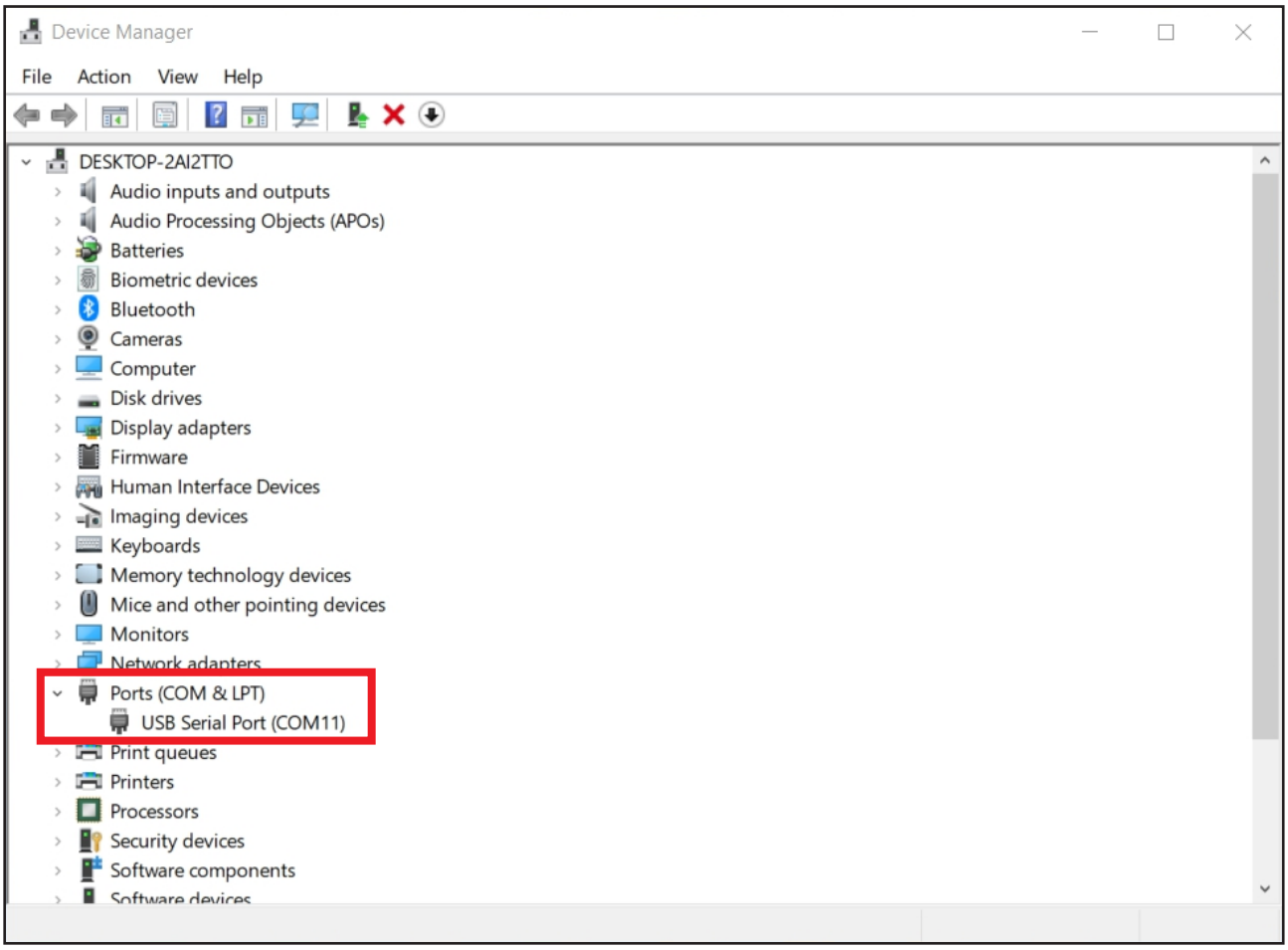
2. Then find the debug port on the motherboard, connect it.



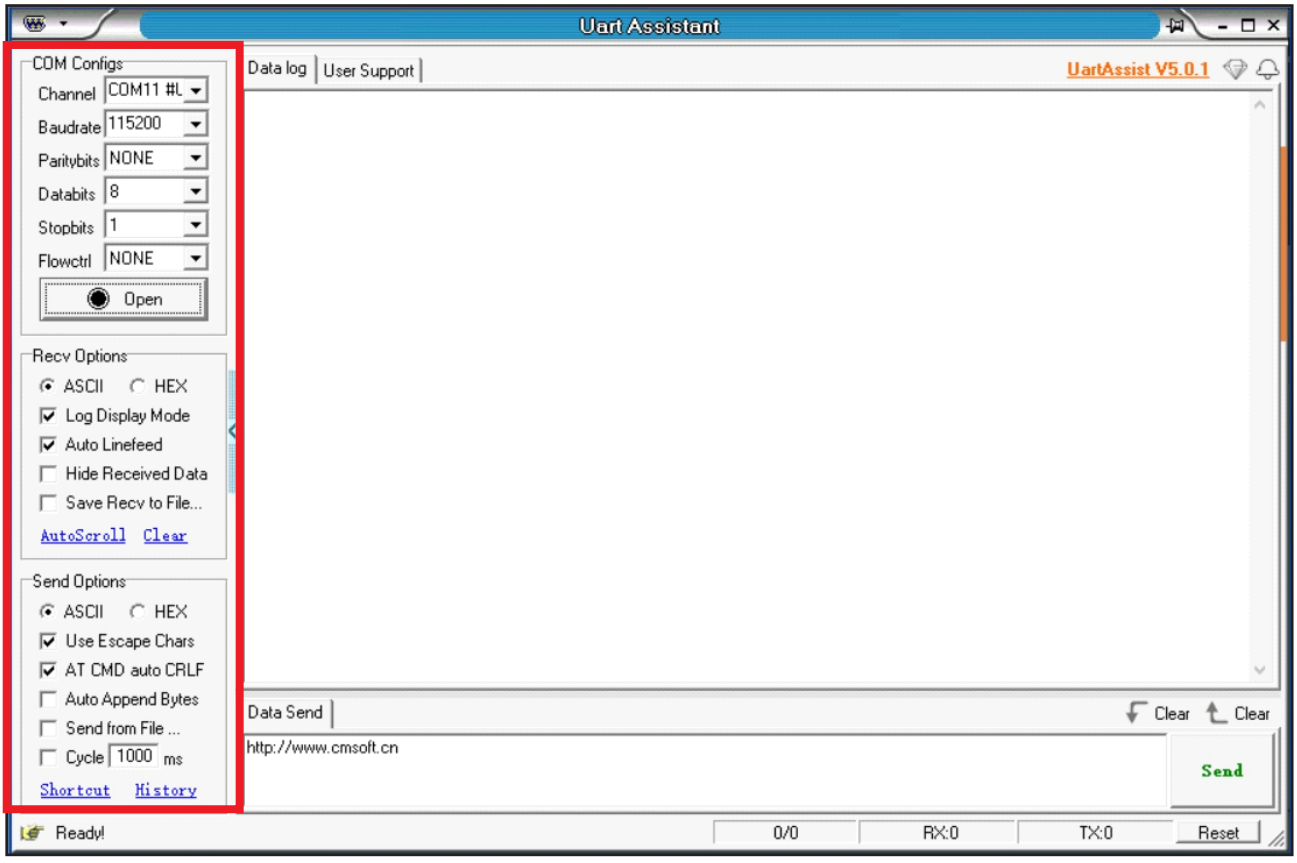
3. Right click Start menu, then click "Device Manager"



4. Check Ports, and find the USB Serial Port (COM XXX).



5. Open "UartAssist.exe", select the corresponding port in first input box, and ensure the baud rate is 115200 and other parameters also need to set like the photo, then you can click Open, start printing logs.



6. After that, you can save data log as a text file, then send to the RD team analyze.

```
[2025-08-13 12:40:23.491]# RECV ASCII/31 <<<
[12:39:17.170] WebSocket PING


[2025-08-13 12:40:23.862]# RECV ASCII/125 <<<
[12:39:17.550] receive data: ?
[12:39:17.553] fin:1, opcode:10, mask:0, playload_len:0
[12:39:17.558] WebSocket PING/PONG


[2025-08-13 12:40:31.542]# RECV ASCII/512 <<<
[12:39:17.167] Charger Status Changed: SysState_Wait=>SysState_Wait
[12:39:17.173] PWM=100.0
[12:39:17.176] PP1:0, CP1:12.4
[12:39:17.179] LockA:0, RelayA:0
[12:39:17.182] Temperature:36
```