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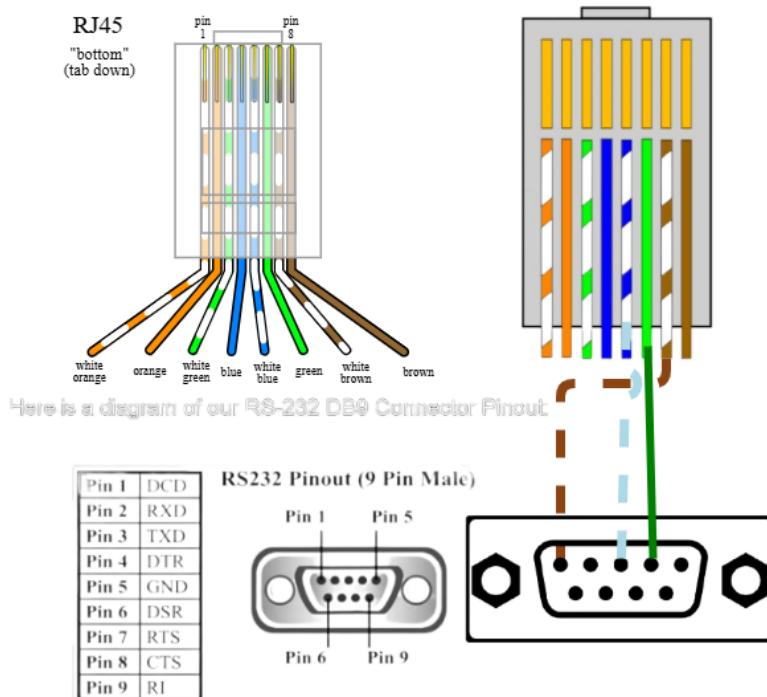
 **PAX A920 RS232 Custom Cable Documentation (GHL UOB Integration)**

 **Confirmed Working Wiring**

**DB-9 Female (to USB RS232 Adapter) → RJ45 (to PAX Docking Station L920-BE)**

DB-9 Female Pin	Signal	T568B RJ45 Pin	T568B Color
Pin 1	DCD	Pin 7	White Brown
Pin 3	TXD	Pin 5	White Blue
Pin 4	DTR	Pin 6	Green

 *This pinout was confirmed working with GHL PAX A920 L920-BE Dock and COM port simulator.*



## RJ45 Layout (T568B Standard)

Clip Facing Away From You (Left to Right):

1. White Orange
  2. Orange
  3. White Green
  4. Blue
  5. White Blue → TXD DB9
  6. Green → DTR DB9
  7. White Brown → DCD DB9
  8. Brown
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## DB9 RS232 Pinout Reference

DB-9 Pin	Signal Name	Description
1	<b>DCD (Data Carrier Detect)</b>	<b>Used by dock communication</b>
2	RXD (Receive Data)	(Not used in this setup)
3	<b>TXD (Transmit Data)</b>	<b>Data sent from PC to POS</b>
4	<b>DTR (Data Terminal Ready)</b>	<b>Handshake Signal</b>
5	GND (Ground)	<i>Unused in their official cable</i>
6	DSR (Data Set Ready)	(Not used in this setup)
7	RTS (Request To Send)	(Not used in this setup)
8	CTS (Clear To Send)	(Not used in this setup)
9	Ring Indicator (RI)	(Not used in this setup)

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## Required Components

- **PL2303GT USB to Serial Adapter**
    - **⚠ Must be Prolific chipset (PL2303 preferred)**
    - FTDI chipset didn't work at all during tests
  - **RS232 DB9 Female connector**
  - **T568B standard network cable (Cat5e/Cat6)**
  - Crimping tool + RJ45 connector
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## Serial Port Settings (from POS Integration Spec Appendix C)

Setting	Value
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None
Protocol	Character Mode (P_char_mode)

Set this in **Device Manager > COM Port > Properties > Port Settings**.

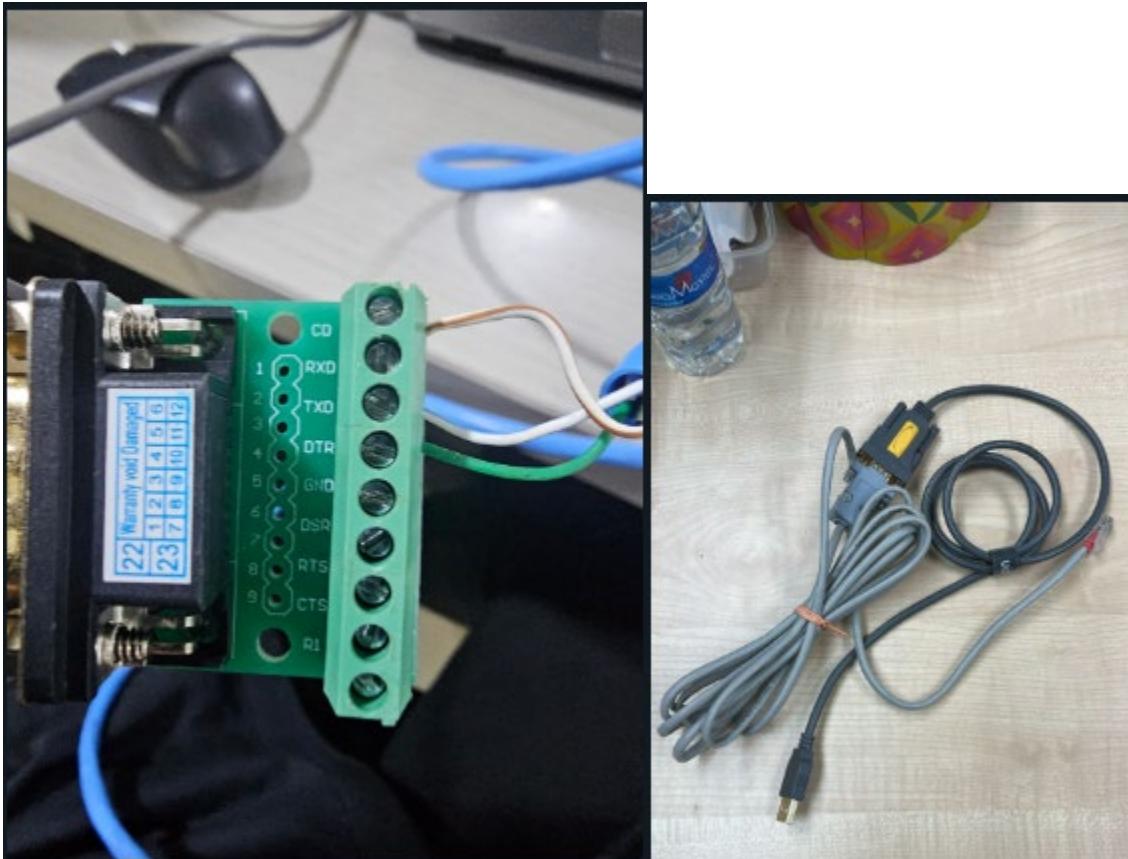
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## Testing Tips

- You can send HEX commands using:
  - Python (via pyserial)
  - TeraTerm or PuTTY (Hex mode, Serial COM)
- Use a **POS simulator tool** or a prebuilt .exe from GHL to simulate SALE/VOID (SET IT TO COM1)
- Confirm terminal responds with:

- Error Code: 00
  - Approval: <some code>
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 **Reference Photo**



## Wiring Diagram

