

"2-Wire" RS232 Signal Switching Between 1 Embedded Data Radio 2 Your Device/Instrument 3 External-Access D9 connector

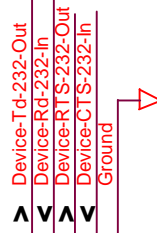
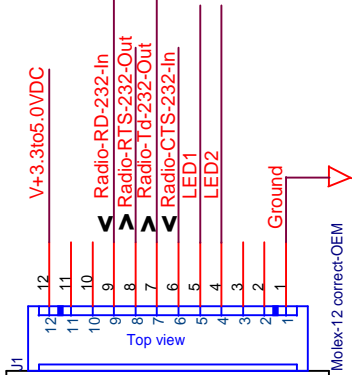
TIP: "2-Wire is Td, Rd ONLY.
If you have "4-wire" RS232 (Td, Rd, RTS, CTS) please see drawing 100821-004.

Question: "I want to embed the WLAN Mini-b radio into my equipment, but still want the option to also communicate with the Equipment via the external RS232 connection, and Set Up the WLAN Mini-b radio from the same external RS232 connection."

Answer: The 2-Pole:3-position switch is the key to providing a very low cost switchable solution (the 4P3Pos switch is about \$0.69 quan.1, less than \$0.42 in high quantity and does not require a costly rotary switch).

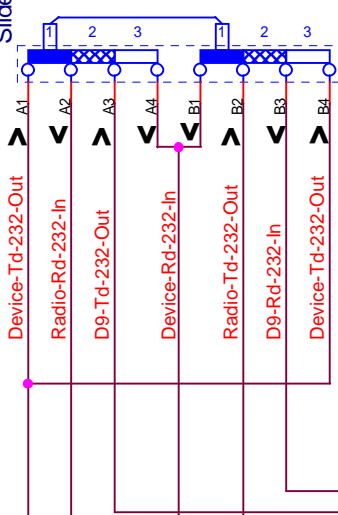
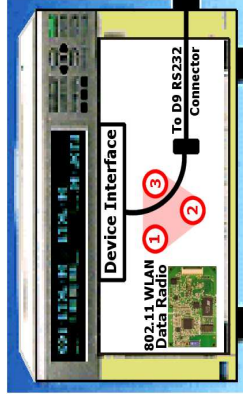
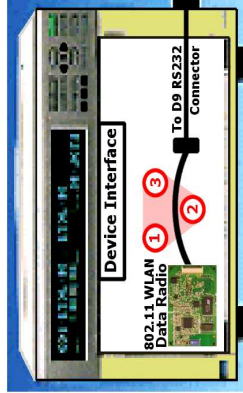
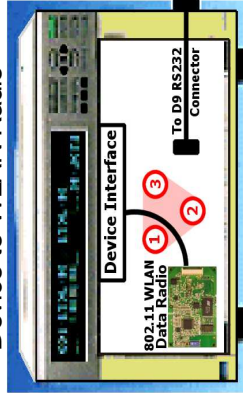
802.11 Mini-b Data Radio built into your Device

Your Device Internal RS232 Connections (Instrument, Equipment Controller, Telemetry)



Low-Cost 3-Position Switch allows Complete Control Versatility

Radio Connect to Device **Switch Position 1** Device-to-WLAN Radio
External D9 Connect to Radio **Switch Position 2** WLAN Radio-to-RS232 Connector
External D9 Connect to Device **Switch Position 3** Device-to-External RS232 Connector



TIP: Notice how the signal Outputs and Inputs are alternated between adjacent pins. An Output always connects to an Input in all 3 switch positions. Two Outputs never connect and two Inputs never connect.

WARNING!

2-Wire systems without Flow Control (RTS/CTS) run a probable risk of data corruption due to Buffer Overflow. All data radios package the data, so if there is no Flow Control then there is nothing to stop a buffer from filling up and overflowing, resulting in data loss. However, if your device only has 2-wire RS232 signals then you may have no choice.

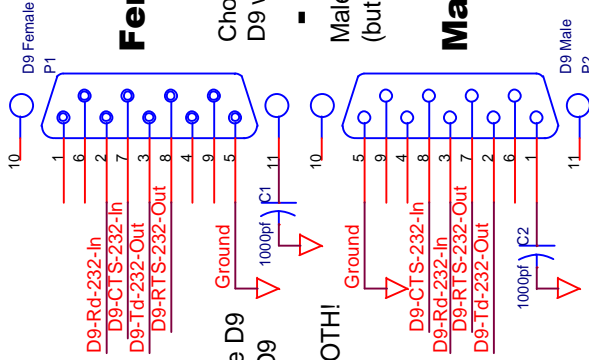
Female D9

Choose either Female D9 wired as DCE

- OR -

Male D9 wired as DTE (but not BOTH)

Male D9



Choose Male D9 or Female D9 connection - BUT NOT BOTH!

Data Hunter

Title	
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Schematic, 2-wire RS232, 2Pole, 3-Pos. Switch