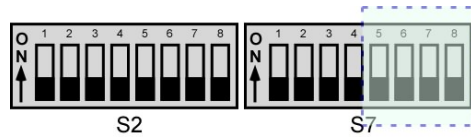


## Using winDSK8 with the OMAP-L138

- Prior to using winDSK8, the OMAP-L138 must be reflashed with the winDSK8 kernel. The instructions for how to do this are on the textbook CD in the **pc\_apps** directory. To check if the winDSK8 kernel has been installed correctly, press the reset switch (S5) on the OMAP-L138 board and observe that the user LEDs (LED1 and LED2) flash alternately several times.
- Set the OMAP-L138 board for an SPI1 flash boot (S7-5 OFF, S7-6 OFF, S7-7 OFF, S7-8 OFF).



- Three switches on S2 are read on reset to control the operation of the winDSK8 kernel. The switches are only read on reset, so changes to the switches while the winDSK8 kernel is running will not have any effect.
  - S2-1 : Turn ON to enable the winDSK8 kernel. If S2-1 is OFF, the winDSK8 kernel will remain idle, allowing the DSP program to use UART2, the user LEDs, and the user switches (S2).
  - S2-2 and S2-3 : These two switches control the winDSK8 kernel baud rate as shown in the table below. Ensure that you set S2-2 and S2-3 to match the baud rate set in the winDSK8 application.

S2-2	S2-3	Baud rate
OFF	OFF	115200
ON	OFF	230400
OFF	ON	460800
ON	ON	921600 (this rate may not work with some serial ports and/or OMAP_L138 boards)

- Connect the serial port cable to the DB-9 connector (item A on left image below, circled in red) on the OMAP-L138 board. Note that a null-modem adapter (circled in green on the right image below) or a null-modem cable will be required between the serial port cable and the OMAP-L138 board.

