Connecting the Altium USB Adapter to a NanoBoard-NB1

Altium's USB JTAG Adapter enables you to create a JTAG link (incorporating multiplexed Hard and Soft JTAG chains) from your PC (running Altium Designer) to a NanoBoard-NB1, using a USB connection.

On the PC side, connect the USB JTAG Adapter to a spare USB port on the PC, using the supplied USB cable.

On the NanoBoard-NB1 side two connect options are possible:

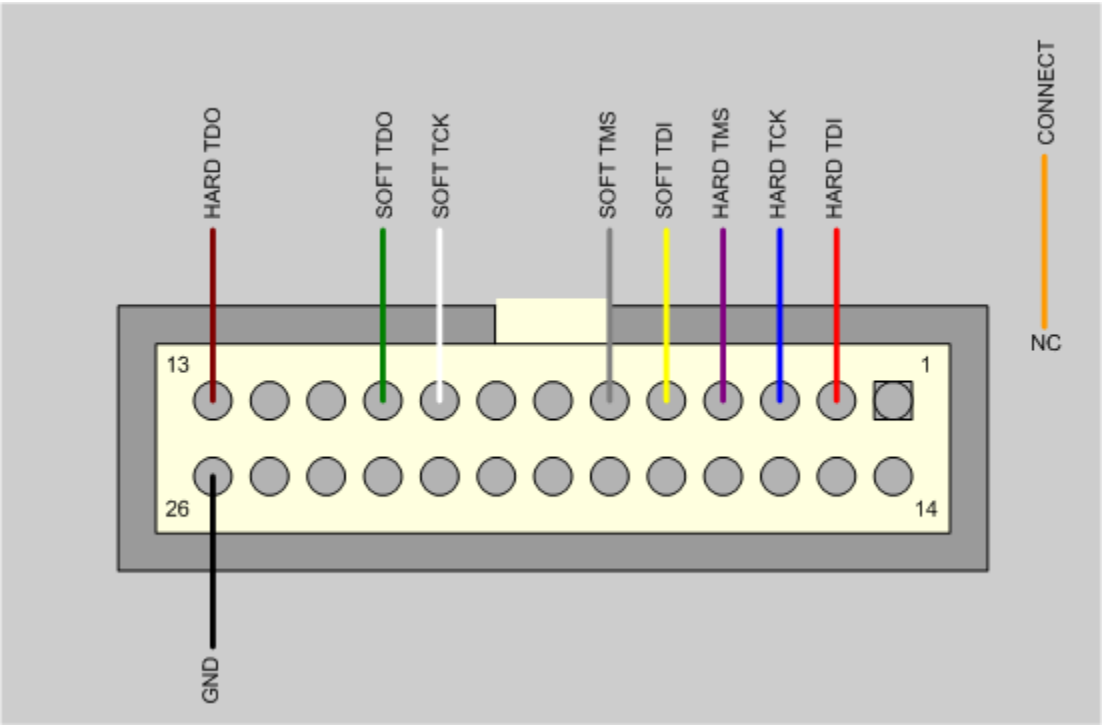
1) Use the 26 pin connector included in the USB JTAG Adapter package to connect the NanoBoard-NB1s parallel port header. Please note that older versions of the USB JTAG Adapter do not include the 26 pin connector. Then option 2 can be used.

2) Connect via the use of nine of the flying leads from the supplied JTAG flying-lead cable (10-way IDC – 10 flying leads). The applicable flying leads are connected straight into the relevant pins of the NB1's parallel port header (`HDR3`).

The following table lists the flying leads to be used and which pin of the parallel port header they need to connect to.

Flying Lead color	Connect to Parallel Port Header pin...	Function
Red	2	HARD TDI
Blue	3	HARD TCK
Purple	4	HARD TMS
Yellow	5	SOFT TDI
Gray	6	SOFT TMS
White	9	SOFT TCK
Green	10	SOFT TDO
Brown	13	HARD TDO
Black	26	GND

The Orange flying lead – labeled `CONNECT` – is floating and can be left unconnected. It is not connected at the Adapter end of the cable.



Flying-lead connections to the NB1's parallel port header.