



# Connecting the Universal JTAG Interface to the Altium NanoBoard-NB1

## Summary

This document describes the pin connections when connecting the USB-based Universal JTAG Interface to the NanoBoard-NB1's parallel port header.

(v1.1) November 11, 2008

The Universal JTAG Interface 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 Interface device to a spare USB port on the PC, using the supplied USB cable. On the NanoBoard side, connection involves use of seven 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).

Table 1 lists the flying leads to be used and which pin of the parallel port header they need to connect to.

Table 1. USB interface port-plugin component.

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

Figure 1 illustrates these flying-lead connections to the NB1's parallel port header.

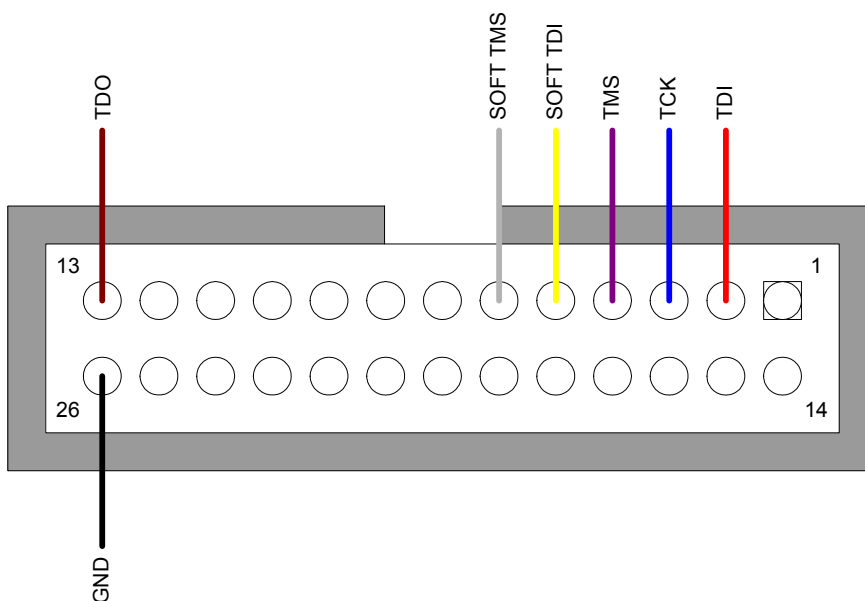


Figure 1. Flying-lead connections to the NB1's parallel port header.

## Revision History

Date	Version No.	Revision
01-April-2008	1.0	Initial release
11-Nov-2008	1.1	Changed function for Yellow flying lead from 'CONNECT' to 'SOFT TDI'. Changed function for gray flying lead from 'MODE' to 'SOFT TMS'.

Software, hardware, documentation and related materials:

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