

Dimensional Drawing and Pinout Information for LabJack U12 -PH and -NTH OEM Boards

This is a view looking at the solder side of the PCB, not the component side. On a normal non-OEM LabJack U12, the DB25 and USB connectors are mounted on the component side, along with everything else except the screw terminals and status LED.

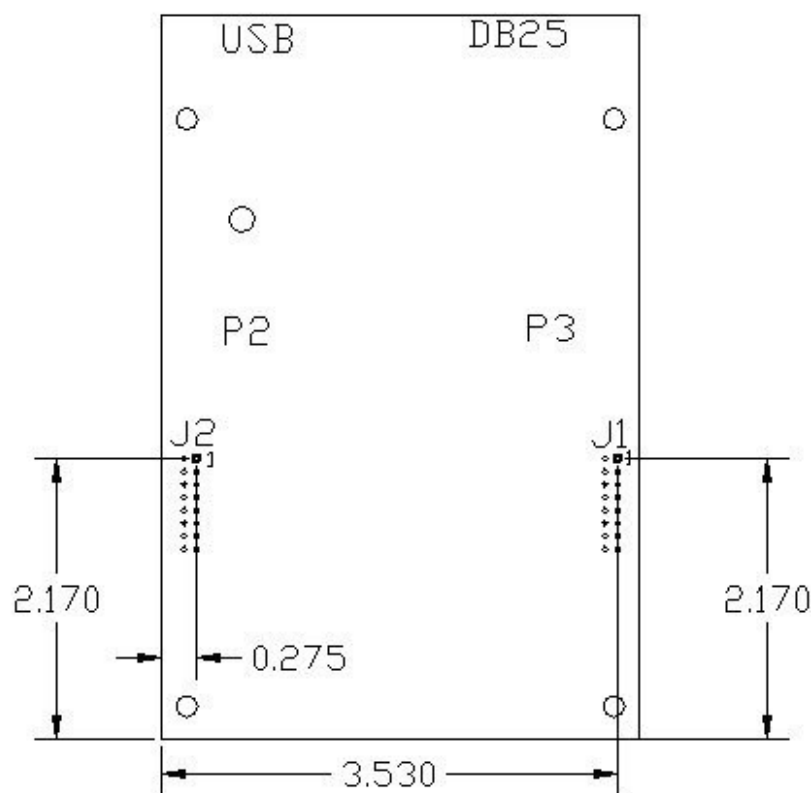
The LJU12-PH is an OEM board with pin-headers installed (on the component side) instead of screw-terminals. In addition, the LED is installed on the component side of the board, so nothing is on the solder side.

The LJU12-NTH is an OEM board with no through-hole components. This means no screw-terminals, pin-headers (e.g. Digikey #WM6916), DB25 connector (e.g. Digikey #182-25F), USB connector (e.g. Digikey #ED90003), or LED (e.g. Digikey #160-1089).

The USB holes expect a standard type-B USB connector. That means that looking at the solder side of the PCB oriented as in the figure below, GND would be the upper-right hole, and then clockwise they go VS, D-, and D+. Note that many U12 PCBs have the USB holes labeled with numbers and these numbers follow IC standards not the standard that many have since adopted for USB connector numbers. On the U12 the numbers correspond to: 1=D+, 2=D-, 3=VS, and 4=GND.

The pin-headers are standard 2x8 0.1" headers such as Jameco part# 109567. Pin 1 on each header is shown. The pins then go down the column to pin 8. Pin 9 is right next to pin 8 in the other column, and then the pins count up to pin 16 which is right next to pin 1. Pins 1-15 match up with screw terminal connection 1-15 and pin 16 has no connection. Pin 1 on J1 is IO0. Pin 1 on J2 is AI0.

VIEW LOOKING AT SOLDER SIDE OF PCB



J1		J2	
1	IO0	1	AI0
2	IO1	2	AI1
3	GND	3	GND
4	IO2	4	AI2
5	IO3	5	AI3
6	GND	6	GND
7	AO0	7	AI4
8	AO1	8	AI5
9	GND	9	GND
10	CNT	10	AI6
11	GND	11	AI7
12	GND	12	GND
13	+5V	13	+5V
14	+5V	14	+5V
15	STB	15	CAL
16	NC	16	NC