

## MSP430-JTAG FOR PROGRAMMING AND FLASH EMULATION WITH MSP430 MICROCONTROLLERS

### Features:

MSP430-JTAG connects to LPT parallel port and works with IAR KickStart software. KickStart allow you to write and debug code in assembly language without any limitations and to write code in C with 2K limit for all MSP430 microcontrollers. The latest release of KickStart software may be free download from TI web site: <http://www.ti.com/sc/msp430>

MSP430-JTAG doesn't need external power supply, as MSP430 microcontrollers require only 3-5 mA while programming and all necessary power supply is taken from the LPT port.

### Supported devices:

The currently supported devices, which can be programmed with MSP430-JTAG are:

**MSP430F1101, MSP430F1121, MSP430F111,  
MSP430F112,**

**MSP430F121, MSP430F122, MSP430F123,**

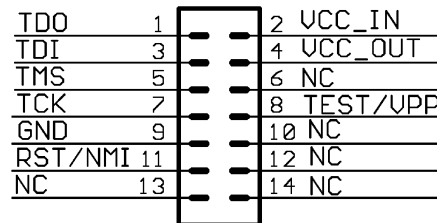
**MSP430F133, MSP430F135, MSP430F147,  
MSP430F148, MSP430F149,**

**MSP430F412 and MSP430F413.**

### JTAG interface:

The JTAG connector is 2x7 pin with 0,1" step and TI recommended JTAG layout. The PIN.1 is marked with square pad on bottom and arrow on top.

JTAG TOP view PCB board layout:  
MSP430-JTAG

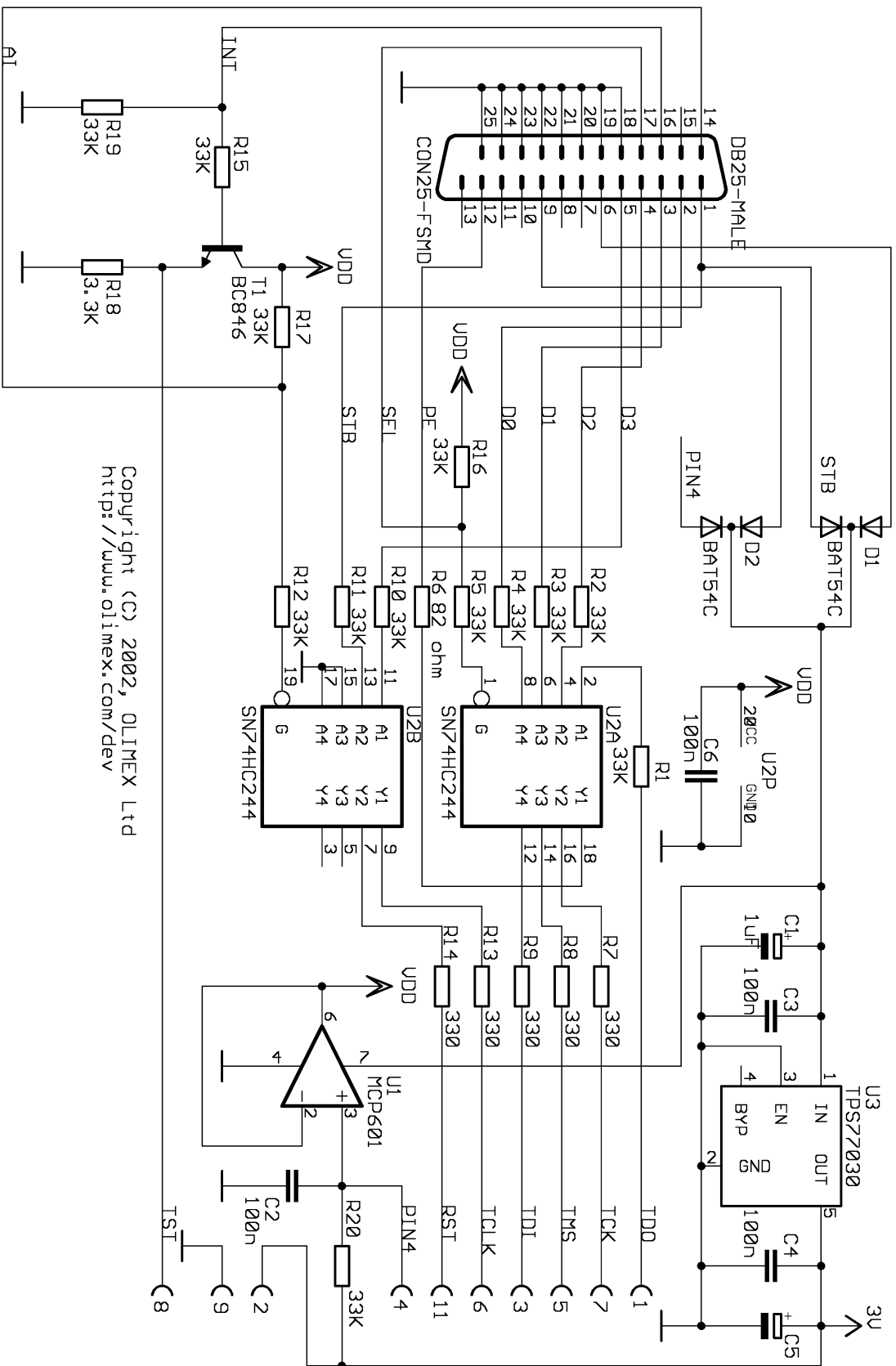


### Target microcontroller voltage:

MSP430-JTAG has build-in target board voltage follower and the JTAG voltage levels follow MSP430 target board voltage, so target may be powered with voltage between 2.7 and 3.6 V (if the target voltage is under 2.7V Flash memory can't be programmed)

### Ordering codes:

MSP430-JTAG - assembled and tested



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