MSP430-JTAG FOR PROGRAMMING AND FLASH EMULATION WITH MSP430 MICROCONTROLLERS

Features:

- programs all MSP430Fxxx flash microcontrollers
- uses TI standard 2x7 pin JTAG connector
- no need for external power supply, all power is taken from the LPT port
- compatible with IAR Kickstart software for programming, real time emulation, debugging, step by step program execution, breakpoints, memory dump etc everything all high priced emulators do
- with IAR Kickstart you can write in assembler unlimited code size and to write in C with 2K limit for all MSP430 microcontrollers
- works with free GCC C compiler and Insight MSP430 toolchain and debugger
- dimensions 50x40 mm (2x1.6") + 20 cm (8") cable

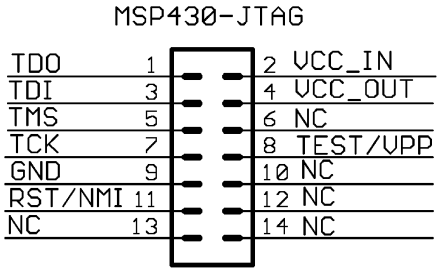
Supported devices:

All MSP430Fxxx flash microcontrollers

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:



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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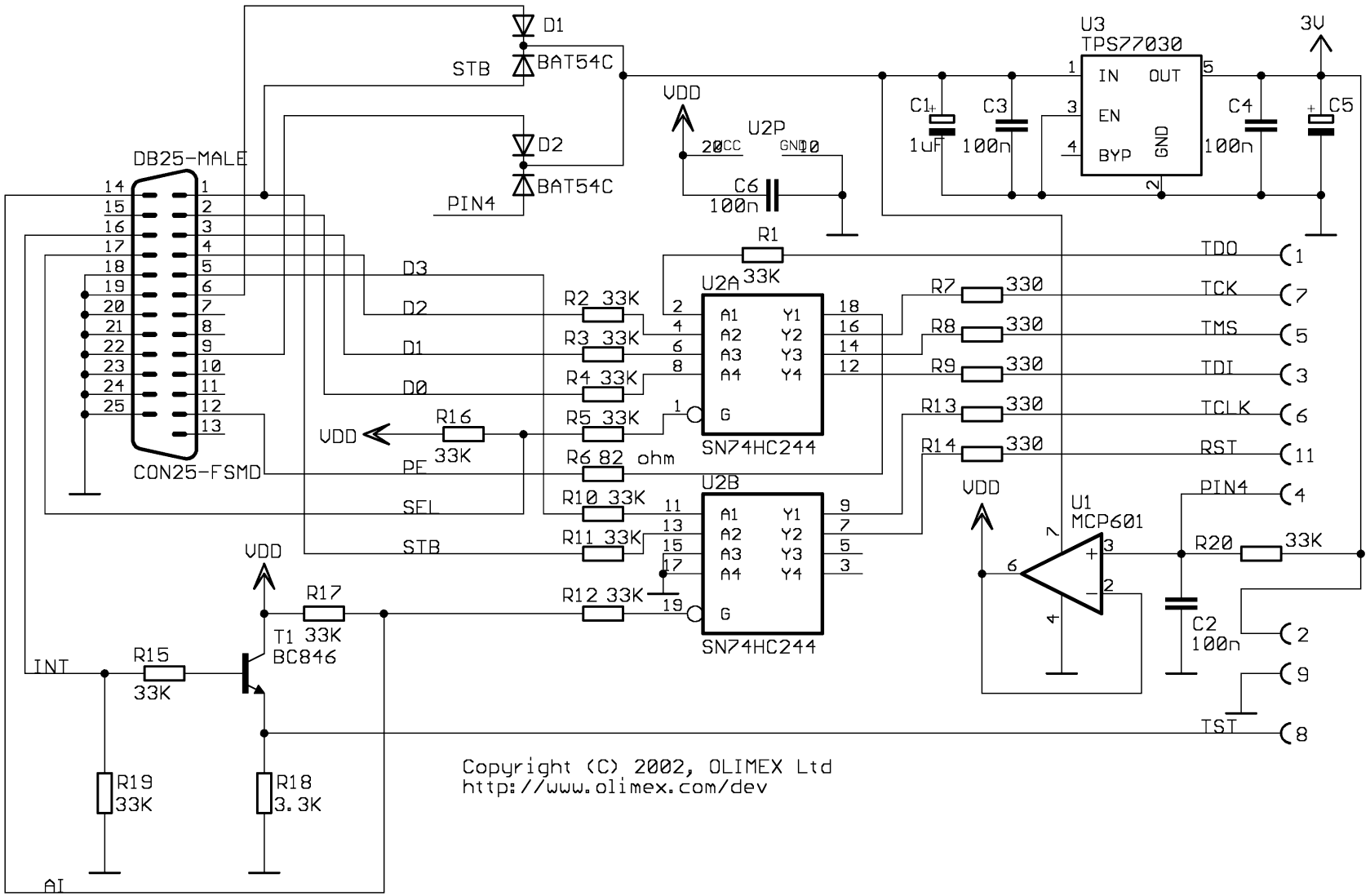
D1
BAT54C
STB
D2
BAT54C
PIN4
DB25-MALE
CON25-FSMD
D3
D2
D1
D0
PE
SEL
STB
INT
AI
VDD
R16
33K
R17
T1 33K
BC846
R15
33K
R19
33K
R18
3.3K
U2P
C6
100n
R1
33K
U2A
SN74HC244
R2 33K
R3 33K
R4 33K
R5 33K
R6 82 ohm
U2B
SN74HC244
R10 33K
R11 33K
R12 33K
U3
TPS77030
IN
OUT
EN
BYP
GND
C1
1uF
C3
100n
C4
100n
C5
3V
R7 330
R8 330
R9 330
R13 330
R14 330
TDO
TCK
TMS
TDI
TCLK
RST
TST
U1
MCP601
R20 33K
C2
100n
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