



MSP430-LED8x8 BOOSTERPACK development board

Users Manual



All boards produced by Olimex are ROHS compliant

Rev. Initial, September 2011

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INTRODUCTION

MSP430-LED8x8 BOOSTERPACK is development board for MSP430-EXP430G2 LaunchPad from Texas Instruments. MSP430-LED8x8 BOOSTERPACK has 8x8 LED MATRIX, at which can be visualized captions or pictures. If you want to visualize longer captions, you can extend the board by connecting several MOD-LED8x8 boards to it. The board has also microphone for detecting sounds and buzzer for playing sounds.

BOARD FEATURES

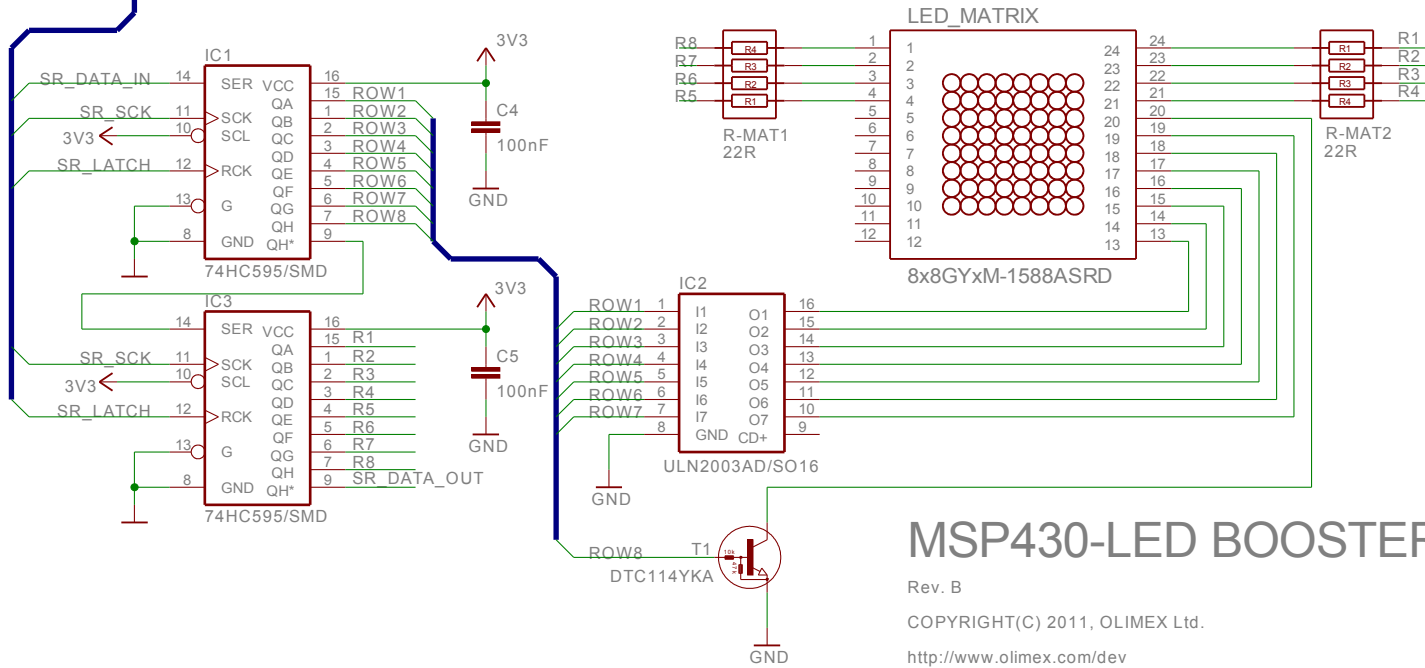
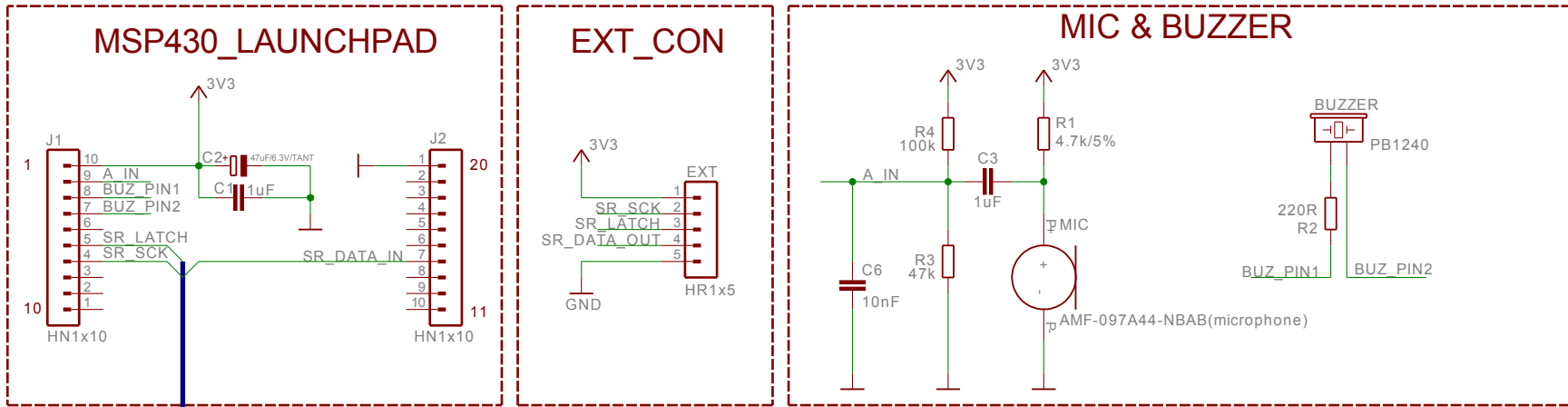
- LED MATRIX 8x8 51x51mm
- BUZZER
- Microphone
- Extension connector
- MSP430_LAUNCHPAD connectors for connecting to MSP-EXP430G2 board
- PCB: FR-4, 1.5 mm (0,062"), solder mask, silkscreen component print
- Dimensions: 65.75x 51.00mm (2.59x 2.01")

ELECTROSTATIC WARNING

The MSP430-LED8x8 BOOSTERPACK board is shipped in protective anti-static packaging. The board must not be subject to high electrostatic potentials. General practice for working with static sensitive devices should be applied when working with this board.

BOARD USE REQUIREMENTS

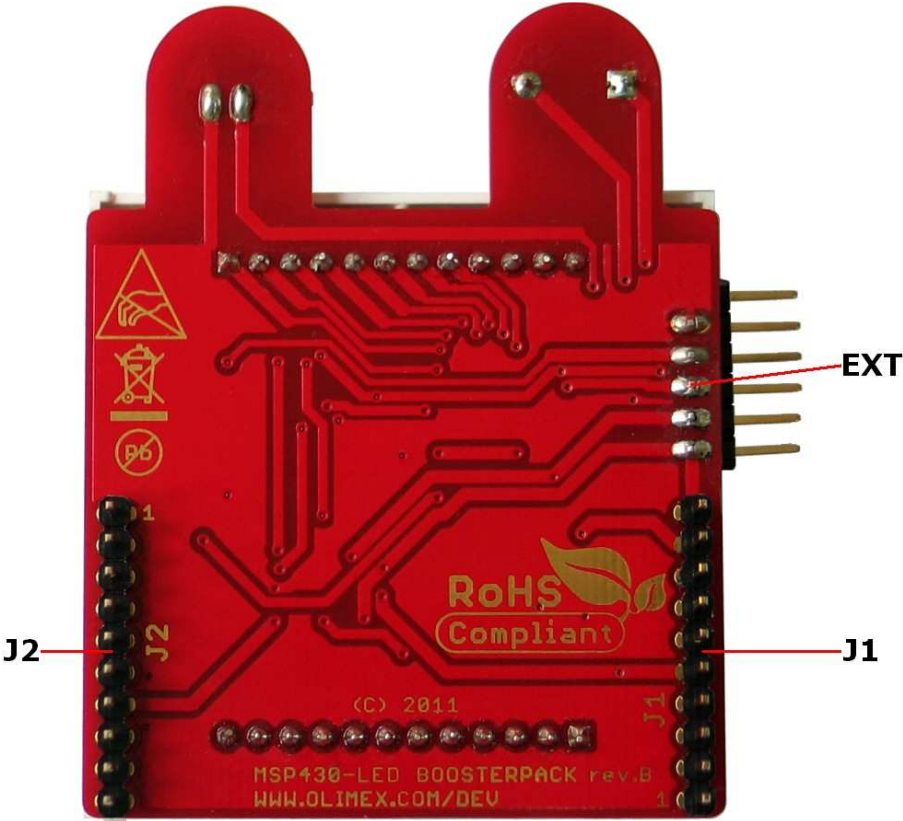
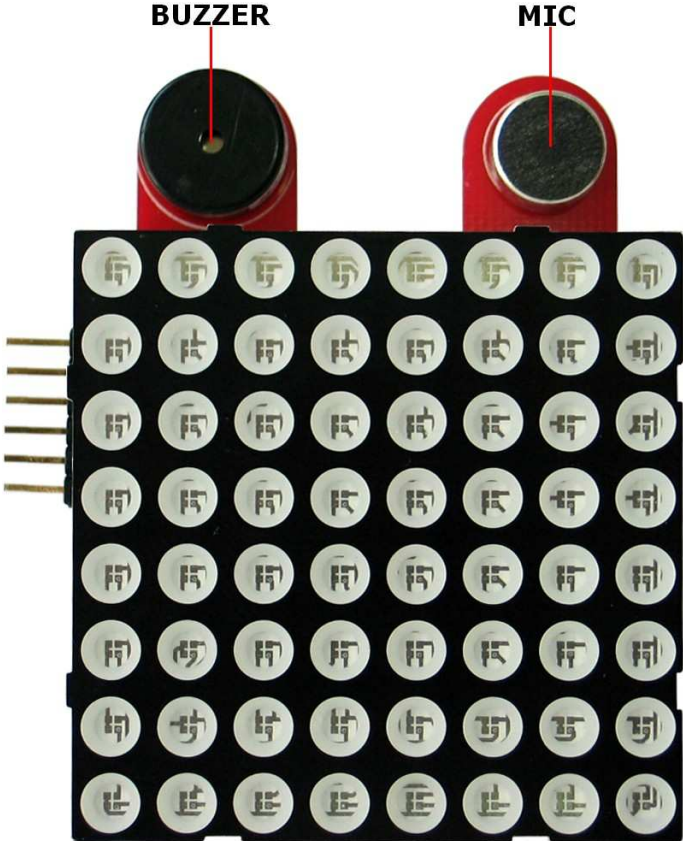
Hardware: MSP430 LaunchPad (MSP-EXP430G2) from Texas Instruments; MOD-LED8x8



MSP430-LED BOOSTERPACK

Rev. B
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BOARD LAYOUT



POWER SUPPLY CIRCUIT

MSP430-LED8x8 BOOSTERPACK can take power from MSP-EXP430G2 via J1 connector pin 10 (VCC) and J2 connector pin 1 (GND).

The board power consumption is: about 90 mA with all peripherals running at full speed.

JUMPER DESCRIPTION

There are no jumpers on this board.

Input/Output

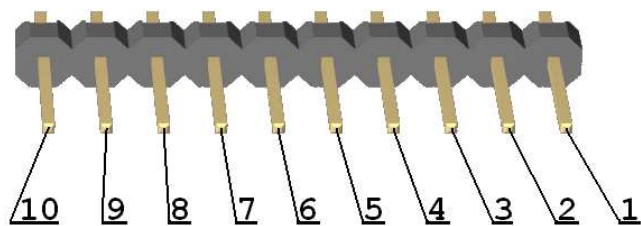
LED MATRIX 8x8 51x51mm

BUZZER – connected to J1 connector pins 7 (BUZ_PIN2) and 8 (BUZ_PIN1).

CONNECTOR DESCRIPTIONS

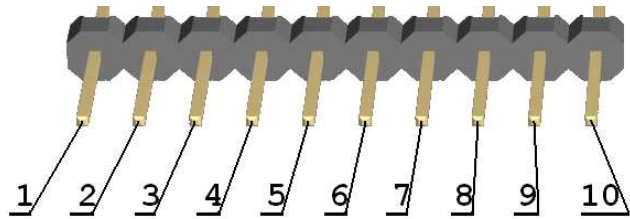
J1

Pin #	Signal Name
1	Not Connected
2	Not Connected
3	Not Connected
4	SR_SCK
5	SR_LATCH
6	Not Connected
7	BUZ_PIN2
8	BUZ_PIN1
9	A_IN
10	VCC



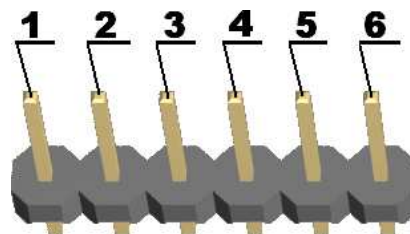
J2

Pin #	Signal Name
1	GND
2	Not Connected
3	Not Connected
4	Not Connected
5	Not Connected
6	Not Connected
7	SR_DATA_IN
8	Not Connected
9	Not Connected
10	Not Connected



EXT

Pin #	Signal Name
1	VCC
2	SR_SCK
3	SR_LATCH
4	SR_DATA_OUT
5	GND
6	Not Connected

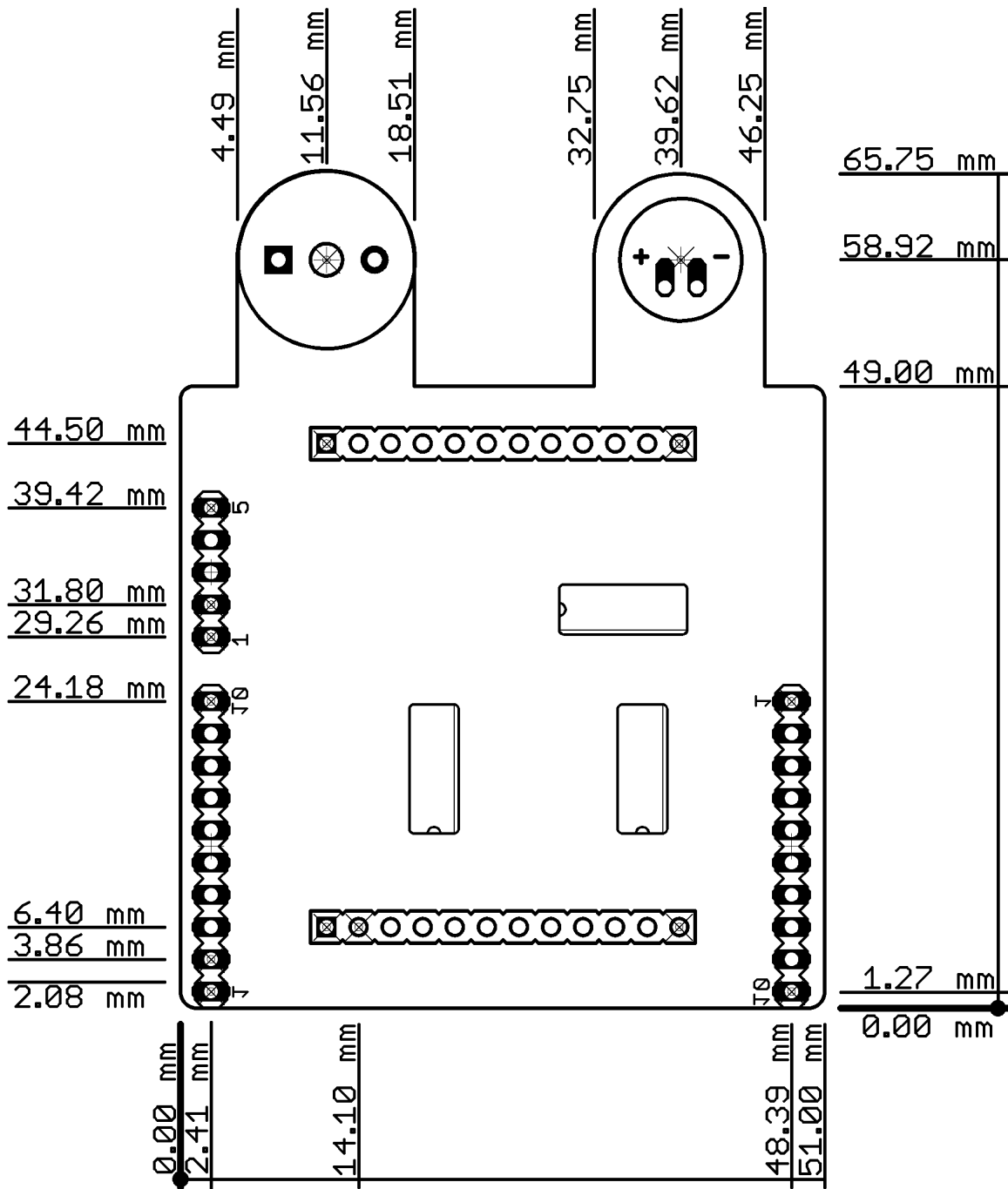


MIC

Pin #	Signal Name
1	A_IN
2	GND



MECHANICAL DIMENSIONS



AVAILABLE DEMO SOFTWARE

- [MSP430-LED-BOOSTERPACK](#) - demonstrates reactions of the board to clapping with different violence by displaying several emoticons and playing sound.

ORDER CODE

MSP430-LED8x8 BOOSTERPACK – assembled and tested (no kit, no soldering required)

How to order?

You can order to us directly or by any of our distributors.

Check our web www.olimex.com/dev for more info.

Revision history:

Board's Revision

- Rev. B created June 2011

Manual's Revision

- Rev. Initial created September 2011

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