Meet the Educational BoosterPack MKII

Part Number: BOOSTXL-EDUMKII

TEXAS INSTRUMENTS

The Educational BoosterPack MKII offers a high level of integration for developers to quickly prototype complete solutions. Various analog & digital inputs/outputs are at your disposal including an analog joystick, temperature sensor, RGB LED, microphone, buzzer, color LCD display & more!

Find more information such as hardware design files, code examples, documentation & more @ www.ti.com/tool/BOOSTXL-EDUMKII

This BoosterPack complies with the BoosterPack pin out standard that is outlined @ ti.com/byob & should pair well with most TI LaunchPad evaluation kits.

Educational BoosterPack MKII shown with MSP-EXP430F5529LP (not included)

In addition, this BoosterPack was developed with Energia in mind. Energia is an open source, community developed coding environment, which is supported by a robust framework of intuitive APIs & easy-to-use software libraries for rapid firmware development. We recommend Energia v15 or later. Learn more about Energia @ www.energia.nu

2) See the many Educational BoosterPack MKII examples at:
File > Examples > EducationalBP_MKII

1) Select the LaunchPad you are developing with:
Tools > Board > [Select your board]
Also select the COM port your LaunchPad is connected to:
Tools > Serial Port > [Select your port]

3) Verify & Upload
Compile & load your code to the LaunchPad.

Energia features a built-in Serial Monitor

This is the blinky example. This will cause the blue LED on your Educational BoosterPack MKII to blink once per second!

Challenge:
Try blinking the other LEDs or changing the blink speed!

Energia is available for Windows, Linux & Mac OS X.

Software Tools

TI Cloud Tools
Get started quickly in your web browser with TI Cloud Tools!

dev.ti.com
- Resource Explorer Cloud
- CCS Cloud IDE

Energia
A simple open-source & community-driven code editor. Easy-to-use functions for blinking LEDs, buzzing buzzers & sensing sensors.

www.energia.nu

Energia IDE

Professional Software tools
LaunchPad is also supported by professional IDEs that provide full debug capability. Set breakpoints, watch variables & more with LaunchPad.

ti.com/ccs

Code Composer Studio™ IDE

BoosterPack Ecosystem

BoosterPack plug-in modules plug into the header pins on the LaunchPad to allow you to explore different applications that your favorite TI MCU can enable. There is a broad range of application-specific and general purpose BoosterPacks available from both Texas Instruments and third parties. Stack multiple BoosterPacks on a single LaunchPad to greatly enhance the functionality of your design. BoosterPacks include:

- Displays
- Wireless Connectivity
- Environmental Sensing

>> See them all @ ti.com/boosterpacks

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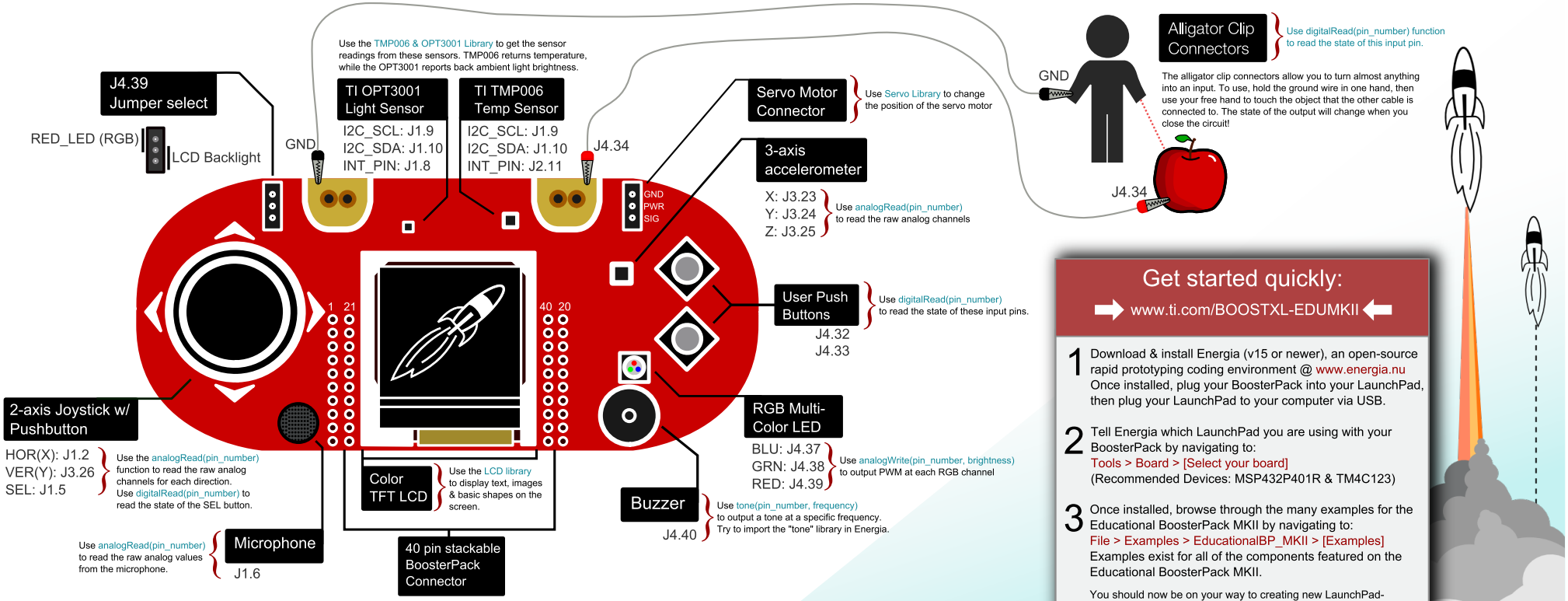
Disclaimer: www.ti.com/lit/ssz027

A closer look at your new BoosterPack Plug-in Module



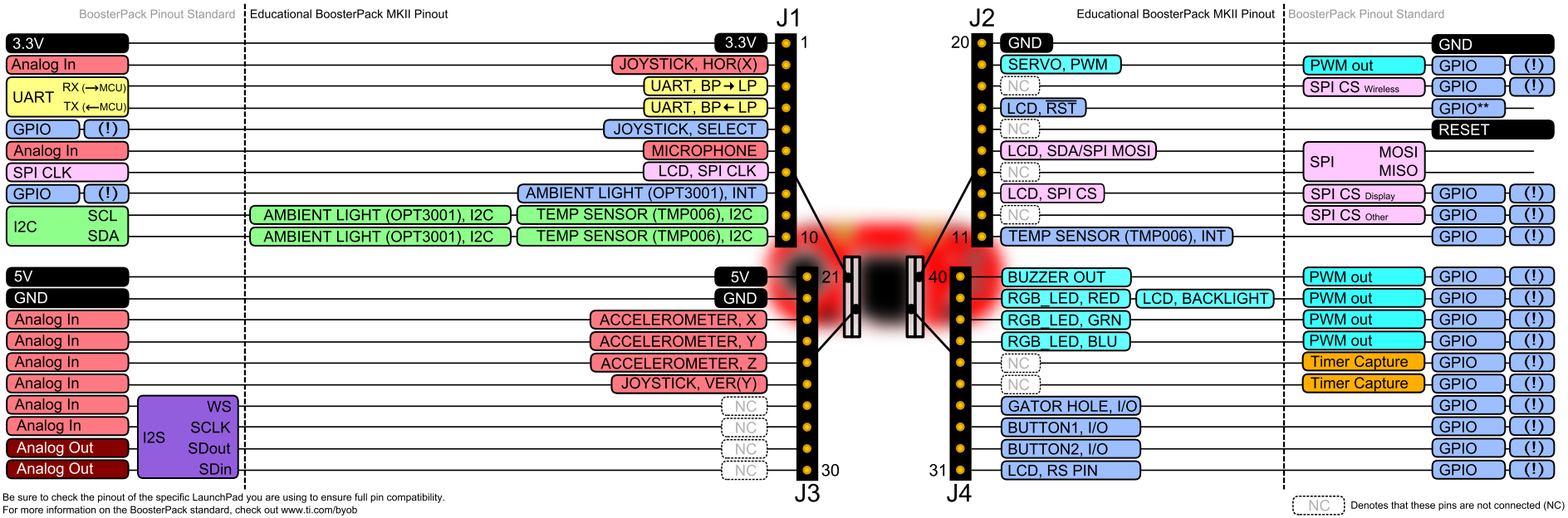
Get started quickly:

www.ti.com/BOOSTXL-EDUMKII

1. Download & install Energia (v15 or newer), an open-source rapid prototyping coding environment @ www.energia.nu
   Once installed, plug your BoosterPack into your LaunchPad, then plug your LaunchPad to your computer via USB.
2. Tell Energia which LaunchPad you are using with your BoosterPack by navigating to:
   Tools > Board > [Select your board]
   (Recommended Devices: MSP432P401R & TM4C123)
3. Once installed, browse through the many examples for the Educational BoosterPack MKII by navigating to:
   File > Examples > EducationalBP_MKII > [Examples]
   Examples exist for all of the components featured on the Educational BoosterPack MKII.

You should now be on your way to creating new LaunchPad-enabled applications. Happy coding!
Need support? Checkout e2e.ti.com & www.43oh.com

Pinout Diagram for your BoosterPack



Be sure to check the pinout of the specific LaunchPad you are using to ensure full pin compatibility.
For more information on the BoosterPack standard, check out www.ti.com/byob

NC Denotes that these pins are not connected (NC)

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