



# TEXAS INSTRUMENTS

**Educational** **BoosterPack MKII**

Part Number: BOOSTXL-EDUMKII

Meet the

BoosterPack MKII 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 applications from 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
- Sensors
- Wireless Connectivity
- Environmental Sensing

See them all @ [ti.com/boosterpak](http://ti.com/boosterpak)



The screenshot shows the Energia IDE interface with several tabs open:

- Code Composer Studio IDE
- Energia IDE
- ti.com/CCS
- www.energia.nu
- dev.ti.com - CCS Cloud IDE - Resource Explorer Cloud

The main code editor window displays the following code for the "Blink" example:

```

// the setup routine runs once when you press reset:
void setup() {
  // initialize the digital pin as an output.
  pinMode(37, OUTPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  digitalWrite(37, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000); // wait for a second
  digitalWrite(37, LOW); // turn the LED off by making the voltage LOW
  delay(1000); // wait for a second
}

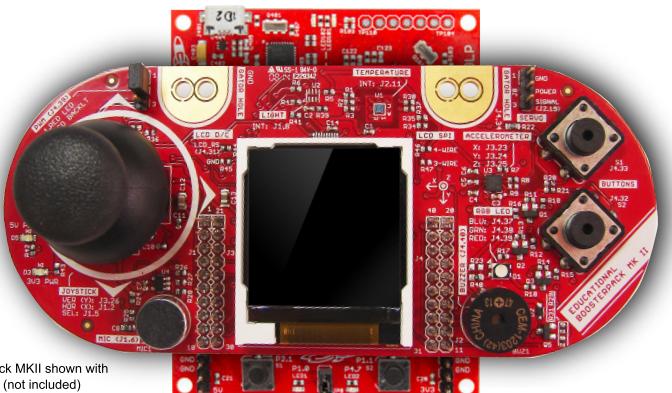
```

The status bar at the bottom indicates: LaunchPad w/ msp430f5529 (25MHz) on COM125.

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!

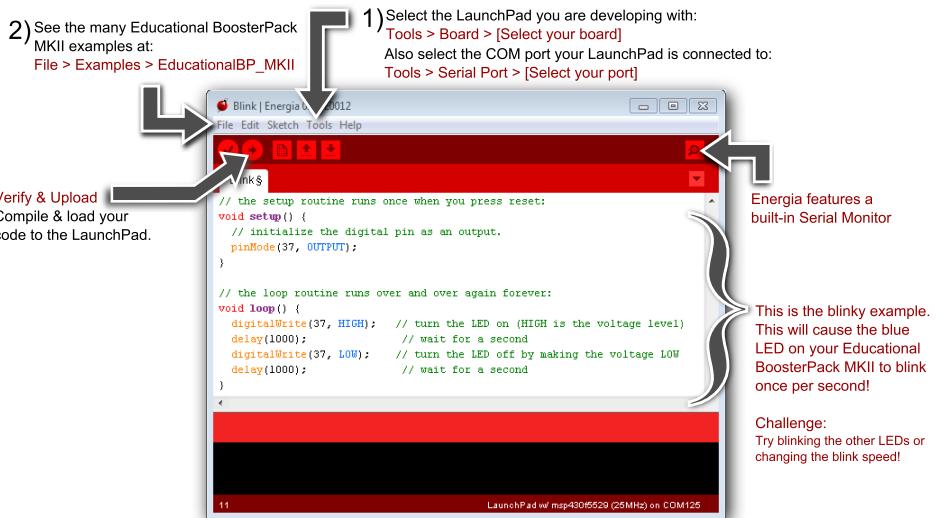
Find more information such as hardware design files, code examples, documentation & more @ [www\(ti\).com/tool/BOOSTXL-EDUMKII](http://www(ti).com/tool/BOOSTXL-EDUMKII)

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



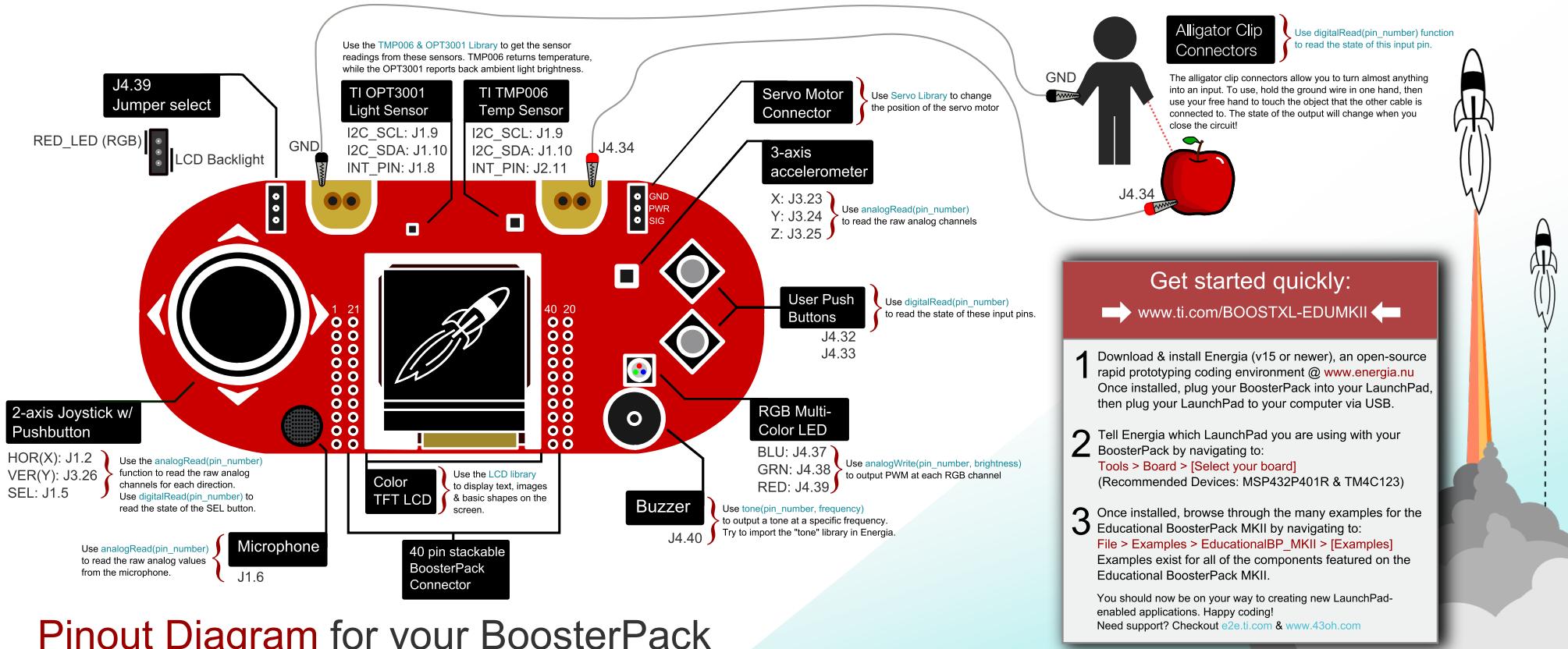
Educational BoosterPack MKII shown with MSP-EXP430F5529LP (not included)

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](http://www.energia.nu)

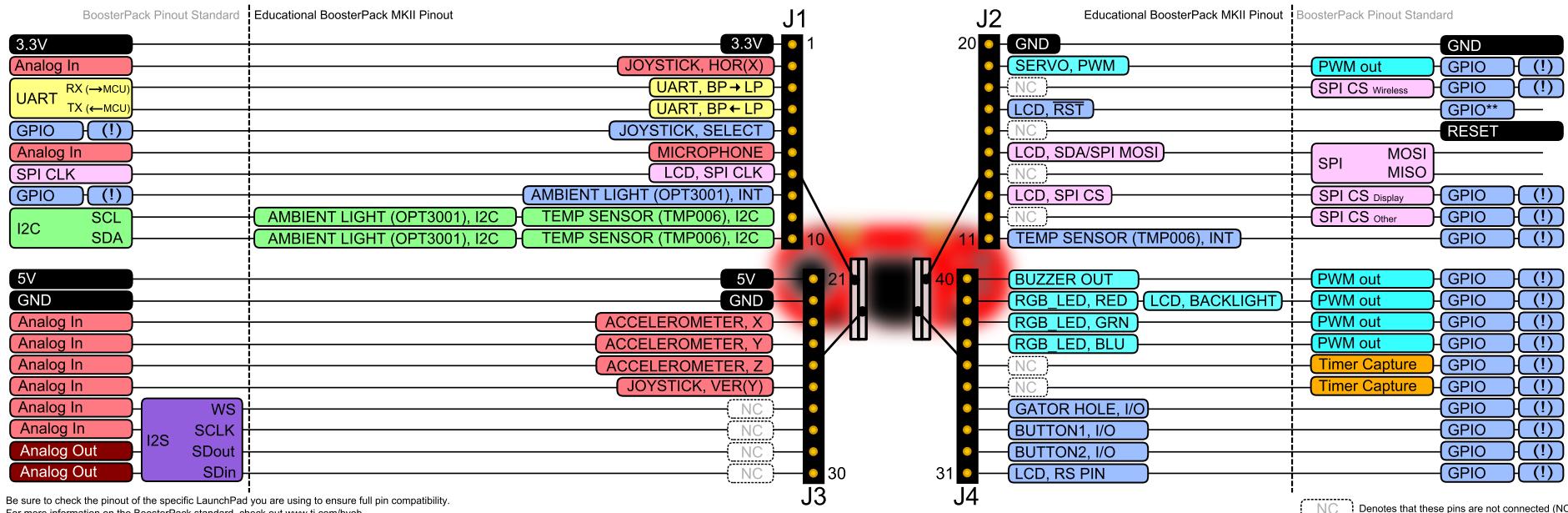


Energia is available for Windows, Linux & Mac OS X.

# A closer look at your new BoosterPack Plug-in Module



## Pinout Diagram for your BoosterPack



## IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as "components") are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of significant portions of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have **not** been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

<b>Products</b>	<b>Applications</b>		
Audio	<a href="http://www.ti.com/audio">www.ti.com/audio</a>	Automotive and Transportation	<a href="http://www.ti.com/automotive">www.ti.com/automotive</a>
Amplifiers	<a href="http://amplifier.ti.com">amplifier.ti.com</a>	Communications and Telecom	<a href="http://www.ti.com/communications">www.ti.com/communications</a>
Data Converters	<a href="http://dataconverter.ti.com">dataconverter.ti.com</a>	Computers and Peripherals	<a href="http://www.ti.com/computers">www.ti.com/computers</a>
DLP® Products	<a href="http://www.dlp.com">www.dlp.com</a>	Consumer Electronics	<a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>
DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>	Energy and Lighting	<a href="http://www.ti.com/energy">www.ti.com/energy</a>
Clocks and Timers	<a href="http://www.ti.com/clocks">www.ti.com/clocks</a>	Industrial	<a href="http://www.ti.com/industrial">www.ti.com/industrial</a>
Interface	<a href="http://interface.ti.com">interface.ti.com</a>	Medical	<a href="http://www.ti.com/medical">www.ti.com/medical</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>	Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>	Space, Avionics and Defense	<a href="http://www.ti.com/space-avionics-defense">www.ti.com/space-avionics-defense</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>	Video and Imaging	<a href="http://www.ti.com/video">www.ti.com/video</a>
RFID	<a href="http://www.ti-rfid.com">www.ti-rfid.com</a>	<b>TI E2E Community</b>	
OMAP Applications Processors	<a href="http://www.ti.com/omap">www.ti.com/omap</a>	<a href="http://e2e.ti.com">e2e.ti.com</a>	
Wireless Connectivity	<a href="http://www.ti.com/wirelessconnectivity">www.ti.com/wirelessconnectivity</a>		