

# EVAL-ADICUP3029 DEVELOPMENT PLATFORM

*A multi-interface platform based on the ADuCM302x family of ultra low power ARM Cortex-M3 microcontroller units with integrated power management.*



The [EVAL-ADICUP3029](#) is an Arduino-like platform based on the ADuCM302x family of ultra low power, integrated mixed-signal microcontroller systems for processing, control, and connectivity.

The microcontroller system is based on an ARM® Cortex®-M3 processor, a collection of digital peripherals, embedded SRAM and flash memory, and an analog subsystem that provides clocking, reset, and power management capability in addition to an ADC subsystem. The platform has an Arduino Uno R3-compatible form factor and has two additional Pmod™-compatible connectors and a Grove-compatible connector. It is accompanied by an Eclipse-based development environment.

## An Ultra Low Power Ecosystem with Connectivity

Our ultra low power development platform features integrated and comprehensive tools, software, hardware, and connectivity.

### Open Source

The CrossCore® Embedded Studio™ is based on free, open-source software including Eclipse, GNU Toolchain, GNU ARM Eclipse Plugin, and others. The [ADuCM3029](#) IDE offers designers an easy to use development tool with no code size limitations.

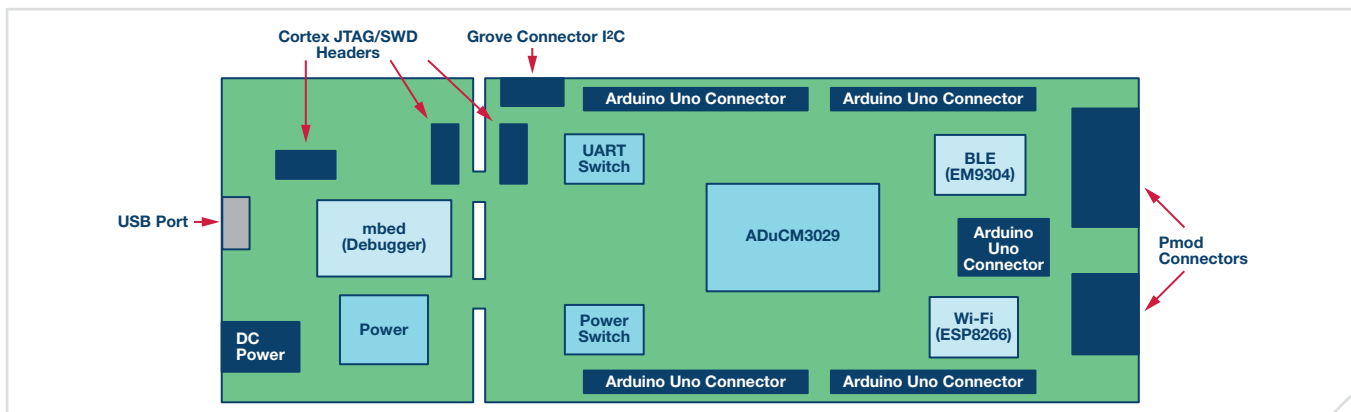


### Prototyping

Use hardware modules and software examples together or create your own to develop your final system.

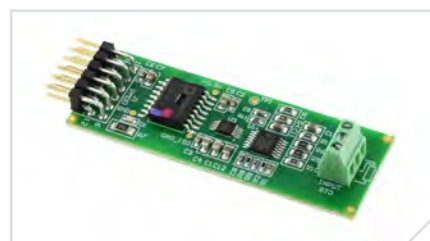
### Wireless Connectivity

ADICUP3029 offers low energy Bluetooth® and Wi-Fi connectivity options available to use for your Internet of Things (IoT) applications.



## Arduino Shield and Pmod-Compatible Add-Ons Currently Available

Form Factor	Part Number	Description
Arduino Shield	<a href="#">EVAL-CN0216-ARDZ</a>	Precision weigh scale design using the <a href="#">AD7791</a> 24-bit, $\Sigma$ - $\Delta$ ADC with external <a href="#">ADA4528-1</a> zero-drift amplifiers
	<a href="#">EVAL-CN0357-ARDZ</a>	Low noise, single-supply, toxic gas detector using an electrochemical sensor with programmable gain TIA for rapid prototyping
	<a href="#">EVAL-CN0391-ARDZ</a>	Flexible, low power, 4-channel thermocouple system with digital interface
	<a href="#">EVAL-CN0396-ARDZ</a>	Dual electrochemical gas sensor with temperature compensation
	<a href="#">EVAL-CN0397-ARDZ</a>	Ultralow power light recognition system for smart agriculture
	<a href="#">EVAL-CN0398-ARDZ</a>	Soil moisture and pH measurement system with temperature compensation
	<a href="#">EVAL-ADXL362-ARDZ</a>	Ultralow power accelerometer with display
Pmod-Compatible	<a href="#">EVAL-CN0326-PMDZ</a>	Isolated, low power pH monitor with temperature compensation
	<a href="#">EVAL-CN0336-PMDZ</a>	12-bit, 300 kSPS, single-supply, fully isolated data acquisition system for 4 mA to 20 mA inputs
	<a href="#">EVAL-CN0337-PMDZ</a>	12-bit, 300 kSPS, single-supply, fully isolated RTD temperature measurement system with 3-wire compensation



For additional information, please reference the ADICUP3029 product page at: [analog.com/eval-adicup3029](http://analog.com/eval-adicup3029). More Arduino shields and Pmod-compatible boards coming soon!

### EngineerZone® Online Support Community

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### Circuits from the Lab Reference Designs

Circuits from the Lab® reference designs are built and tested by ADI engineers with comprehensive documentation and factory-tested evaluation hardware.

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