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.
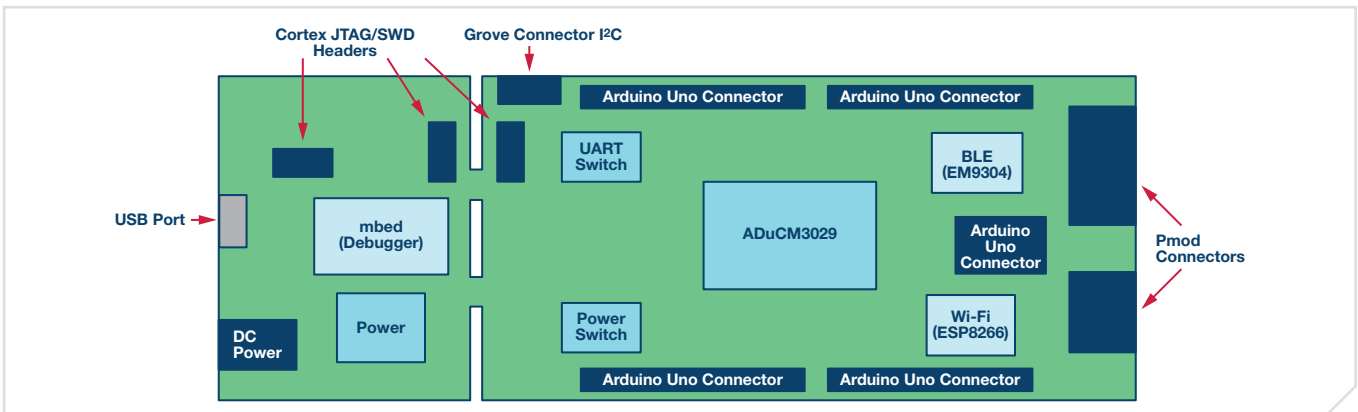
Prototyping

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.

Cortex JTAG/SWD Headers

Grove Connector I²C

Arduino Uno Connector

Arduino Uno Connector

UART Switch

BLE (EM9304)

USB Port

mbed (Debugger)

ADuCM3029

Arduino Uno Connector

Pmod Connectors

DC Power

Power

Power Switch

Wi-Fi (ESP8266)

Arduino Uno Connector

Arduino Uno Connector

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Arduino Shield and Pmod-Compatible Add-Ons Currently Available

Form Factor	Part Number	Description
Arduino Shield	EVAL-CN0216-ARDZ	Precision weigh scale design using the AD7791 24-bit, Σ-Δ ADC with external ADA4528-1 zero-drift amplifiers
	EVAL-CN0357-ARDZ	Low noise, single-supply, toxic gas detector using an electrochemical sensor with programmable gain TIA for rapid prototyping
	EVAL-CN0391-ARDZ	Flexible, low power, 4-channel thermocouple system with digital interface
	EVAL-CN0396-ARDZ	Dual electrochemical gas sensor with temperature compensation
	EVAL-CN0397-ARDZ	Ultralow power light recognition system for smart agriculture
	EVAL-CN0398-ARDZ	Soil moisture and pH measurement system with temperature compensation
	EVAL-ADXL362-ARDZ	Ultralow power accelerometer with display
Pmod-Compatible	EVAL-CN0326-PMDZ	Isolated, low power pH monitor with temperature compensation
	EVAL-CN0336-PMDZ	12-bit, 300 kSPS, single-supply, fully isolated data acquisition system for 4 mA to 20 mA inputs
	EVAL-CN0337-PMDZ	12-bit, 300 kSPS, single-supply, fully isolated RTD temperature measurement system with 3-wire compensation
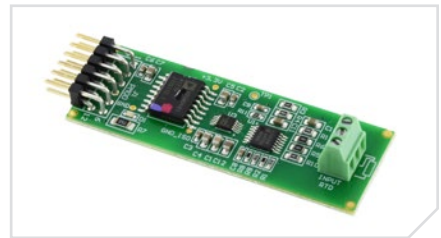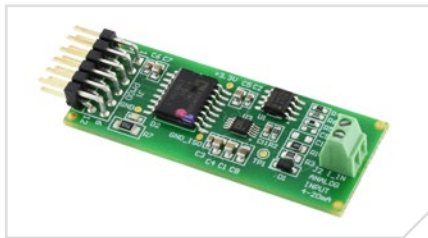
For additional information, please reference the ADICUP3029 product page at: analog.com/eval-adicup3029. More Arduino shields and Pmod-compatible boards coming soon!

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