

# Innovate FPGA Design Contest

## *Sense, Measure, and Connect*

As a sponsor of the Innovate FPGA Design Contest, Analog Devices, Inc. (ADI) is offering your team up to 3\* FREE signal chain add-on plug-ins for the DE10-Nano Development Kit. These boards process analog signals through a range of blocks including ADCs, DACs, and accelerometers/sensors.

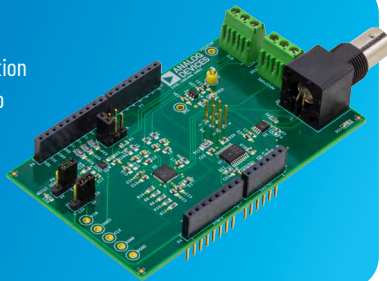
The FREE eval plug-in boards connect to the DE10-Nano via the following two types of interfaces:

### Arduino Plug-Ins: Circuits from the Lab®

Select 1 of any of the 13 eval add-on plug-in boards used for applications ranging from precision weigh scales to gas sensing/detection. Examples of possible eval plug-in choices:

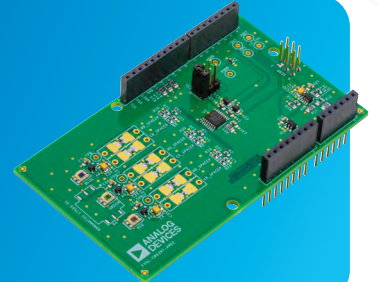
#### EVAL-CN0398-ARDZ

Electrochemical gas detection plugged into the DE10-Nano



#### EVAL-CN0397-ARDZ

3-channel light detection for smart agriculture plugged into the DE10-Nano



### QuikEval Plug-Ins: Connecting to the ADI 2 × 7 QuikEval Header

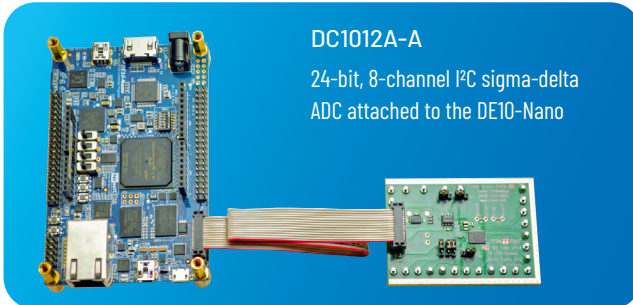
The QuikEval™ plug-in boards for the 14-pin header will help your system process analog signals through a range of processing blocks including ADCs, DACs, and accelerometers/sensors. Select up to 3\* QuikEval plug-in boards.

See the [complete list of all QuikEval plug-in boards](#) that attach to the 14-pin header.

Examples of possible QuikEval plug-in boards:

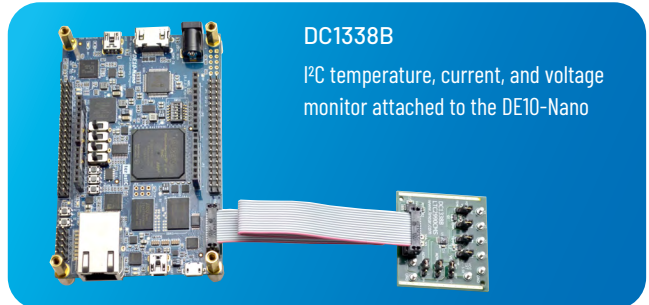
#### DC1012A-A

24-bit, 8-channel I<sup>2</sup>C sigma-delta ADC attached to the DE10-Nano



#### DC1338B

I<sup>2</sup>C temperature, current, and voltage monitor attached to the DE10-Nano



\* Select up to 1 Arduino board and up to 2 QuikEval boards, or no Arduino board and up to 3 QuikEval boards depending on your application.

# Next Steps: How to Search and Order up to 3 FREE Boards

## Arduino Plug-Ins: Circuits from the Lab

Part Number	Description
EVAL-AD8302-ARDZ	Gain and phase detector
EVAL-ADL5902-ARDZ	RF rms power meter
EVAL-ADXL372-ARDZ	Micropower, 3-axis $\pm 200$ g digital output MEMS Arduino shield
EVAL-ADM3055E-ARDZ	5 kV rms signal and power isolated CAN transceiver for CAN FD Arduino shield
EVAL-CN0216-ARDZ	Precision weigh scale
EVAL-CN0357-ARDZ	Electrochemical gas detection
EVAL-CN0338-ARDZ	NDIR thermopile gas sensing*
EVAL-ADXL362-ARDZ	Ultra low power accelerometer
EVAL-CN0391-ARDZ	4-channel thermocouple system
EVAL-CN0395-ARDZ	Volatile organic compound gas detector
EVAL-CN0396-ARDZ	Dual electrochemical gas sensor
EVAL-CN0397-ARDZ	3-channel light detection for smart agriculture
EVAL-CN0398-ARDZ	Soil moisture and pH measurement system
EVAL-CN0428-EBZ	Water quality measurement system; this counts for two boards, with the EVAL-M355-ARDZ-INT also required
EVAL-CN0409-ARDZ	Water turbidity measurement system
EVAL-CN0411-ARDZ	Total dissolved solids measurement system
EVAL-CN0429-EBZ	Multichannel electrochemical gas detector; this counts for two boards, with the EVAL-M355-ARDZ-INT also required
CN0549	Condition-based monitoring development platform

\* The EVAL-CN0338-ARDZ requires slight modification to work with the DE10-Nano Development Kit. Otherwise, mating up will cause a short.

Go to [GitHub](#) for example Linduino/Arduino code on available sensors.

Please fill out the form here: [analog.com/media/en/other/miscellaneous/customer-qualification-form.pdf](https://analog.com/media/en/other/miscellaneous/customer-qualification-form.pdf)

## For support, visit the ADI EngineerZone

For more information and discussion on the InnovateFPGA Design Contest, [head over to the EngineerZone](#).<sup>®</sup> Engage with the ADI technology experts in our online support community. Ask your tough design questions, browse FAQs, or join a conversation.

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BR23154-10/21(B)

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