

# Innovate FPGA Design Contest Semi-Finalists

## *Sense, Measure & Connect*

As a sponsor of the Innovate FPGA design contest, Analog Devices Inc. is offering your team up to 3 **FREE** signal-chain add-on plugins for the DE-10 Nano Development Kit.

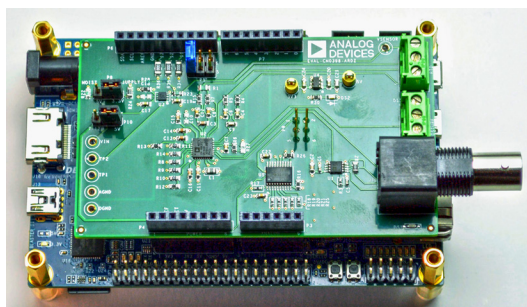
These boards process analog signals through a range of blocks like ADCs, DACs, Accelerometers/Sensors etc.

The **FREE** eval plug-in boards connect to the DE-10 Nano via the following two types of interfaces:

### ► **Arduino Plug-Ins: Circuits from the Lab**

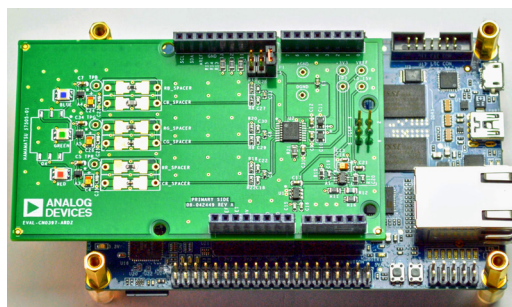
Order any of the [9 EVAL add on plug-in boards](#) used for applications ranging from precision weight scales to gas sensing/detection.

Here are Examples of Possible EVAL Plug-In Choices:



**EVAL-CN0398-ARDZ:**

*Electrochemical Gas Detection Plugged onto the DE-10 Nano*



**EVAL-CN0397-ARDZ:**

*3-Channel Light Detection for Smart Agriculture  
Plugged onto the DE-10 Nano*



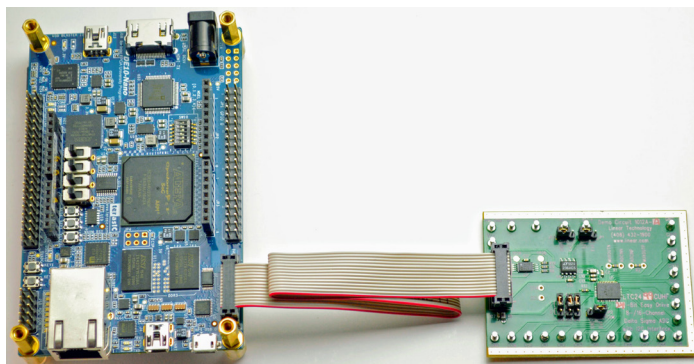
Scan the above QR code  
to see/view any of the 9  
EVAL add on plug-ins

### ► **QuikEval™ Plug-Ins: Connecting to LTC 2×7 QuikEval Header**

The QuikEval plug-in boards for the 14-pin LTC 2×7 header will help your system to process analog signals through a range of processing blocks like ADCs, DACs Accelerometers/Sensors etc.

[A complete list of all QuikEval plug-in boards](#) that attach to the 14-pin LTC 2×7 header is also available.

See Examples of Possible QuikEval Plug in Boards Below:



**DC1012A-A:**

*24-Bit 8-Ch I<sup>2</sup>C Delta Sigma ADC Attached to DE10-NANO*



**DC1338B:**

*I<sup>2</sup>C Temperature, Current & Voltage Monitor Attached to DE10-NANO*



Scan the above QR code to  
see/view a complete list of  
all QuikEval plug-in boards



Visit [analog.com](http://analog.com)

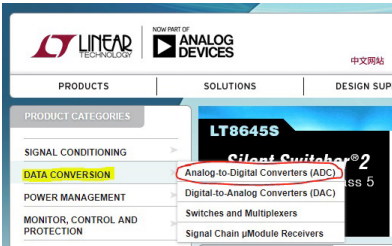
Next Steps: How to Search & Order Up to 3 **FREE** Boards

Arduino Plug-Ins: Circuits from the Lab

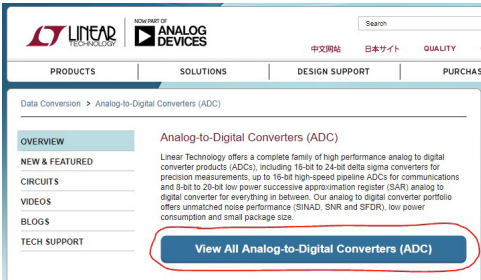
Part Number	General Description of Part
<a href="#">EVAL-CN0216-ARDZ</a>	Precision Weigh Scale
<a href="#">EVAL-CN0357-ARDZ</a>	Electrochemical Gas Detection
<a href="#">EVAL-CN0338-ARDZ</a>	NDIR Thermopile Gas Sensing
<a href="#">EVAL-ADXL362-ARDZ</a>	Ultra-Low Power Accelerometer
<a href="#">EVAL-CN0391-ARDZ</a>	4-Channel Thermocouple System
<a href="#">EVAL-CN0395-ARDZ</a>	Volatile Organic Compound Gas Detector
<a href="#">EVAL-CN0396-ARDZ</a>	Dual Electrochemical Gas Sensor
<a href="#">EVAL-CN0397-ARDZ</a>	3-Channel Light Detection for Smart Agriculture
<a href="#">EVAL-CN0398-ARDZ</a>	Soil Moisture and pH Measurement System

► **QuikEval Plug-Ins: Connecting to LTC 2x7 QuikEval Header**

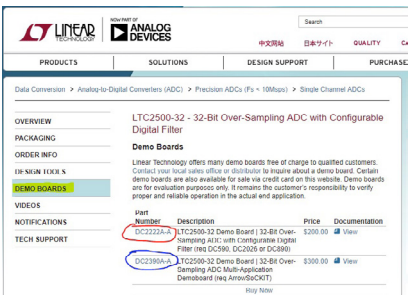
- To help you get started, you need to pick a building block, such as:
- ADC, DAC or other processing blocks at [www.linear.com](http://www.linear.com)
  - As an example, lets pick an ADC for your design. Please click Data Conversion



- Then, click “View All Analog-to-Digital Converters”. You can repeat this for any other building block



- Let's pick the “LTC2500-32” ADC. You can find all demo boards that are available (eg: DC2222A-A or DC2390A-A)



- A complete list of all QuikEval plug-in boards that will attach to the 14-pin LTC 2x7 header is also available. Please fill out the form by going to: <http://www.linear.com/formforfreeboards>

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