

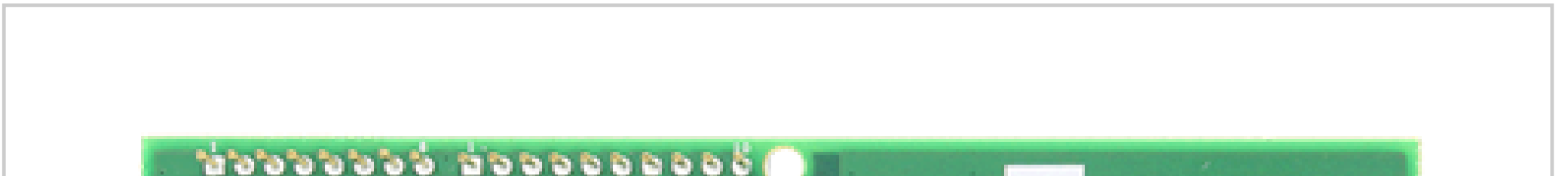
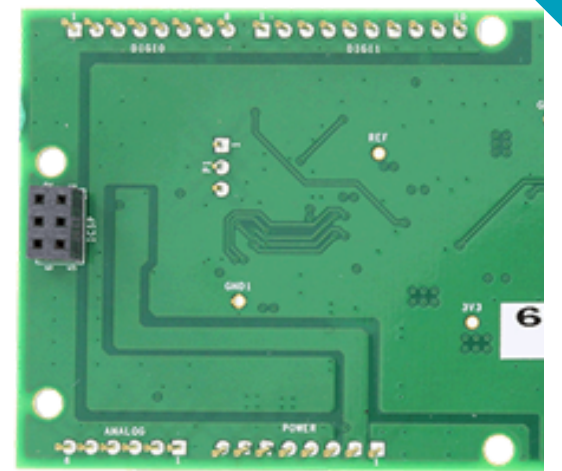
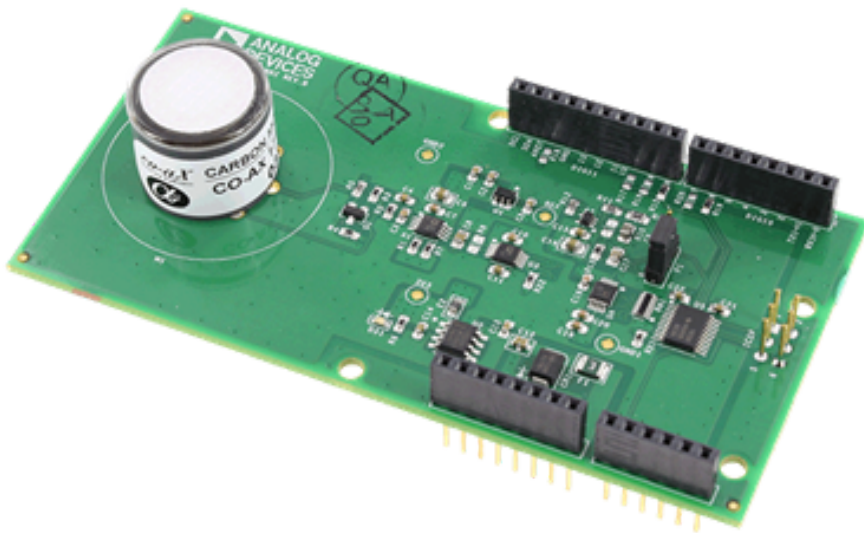


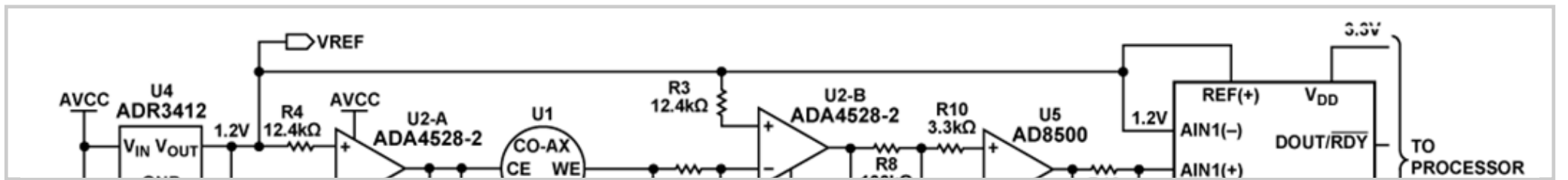
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EVAL-CN0357-ARDZ

Arduino Compatible Electrochemical Gas Detection Circuit
(CN0357)





Overview

Features and Benefits Product Details

- Form Factor Compatible with Arduino
- Programmable for multiple other gases
- Resolution down to 1ppm
- Low power, single supply operation

CN0357 single-supply, low noise, portable gas detector circuit using an electrochemical sensor. The Alphasense CO-AX carbon monoxide sensor is used in this example. Electrochemical sensors offer several advantages for instruments that detect or measure the concentration of many toxic gases. Most sensors are gas specific and have usable resolutions under one part per million (ppm) of gas concentration.

Markets and Technologies

Instrumentation & Measurement (1)

Applicable Parts

[AD7790](#)

[AD5270](#)

[ADA4528-2](#)

[ADR3412](#)

[AD8500](#)

Package Contents

- EVAL-CN0357-ARDZ Board
- CO Electrochemical Sensor

Documentation

[View All \(7\)](#) [Design & Integration Files \(1\)](#) [User Guides \(1\)](#) [Solutions Bulletins & Brochures \(1\)](#) [Circuit Note \(1\)](#) [Videos \(3\)](#)

Design & Integration Files

[EVAL-CN0357-ARDZ Design & Integration Files](#)

ZIP

4.44 M

User Guides

[CN0357 Shield Evaluation Board User Guide](#)

WIKI

Solutions Bulletins & Brochures

[Solutions For Rapid Prototyping: Answering the Needs of Practicing Engineers](#)

PDF

784.09 K

Circuit Note

[CN0357: Low Noise, Single-Supply, Toxic Gas Detector, Using an Electrochemical Sensor with Programmable Gain TIA for Rapid Prototyping](#)

PDF

216.27 K

Videos

[IoT Asset Health Tracking & Remote Toxic Gas Sensing](#)

[Analog Devices Connect: IoT Development Platform](#)

[ADICUP360 - Complete Sensor to Cloud IoT Development Kit](#)

Software

[View All \(3\)](#) [Evaluation Software \(3\)](#)

Evaluation Software

[EVAL-ADICUP3029 Embedded Source Code](#)

WIKI

[CN0357 C Project using ADICUP360](#)

WIKI

[Example Projects using CN0357](#)

Related Hardware (4)

Development Platform

[EVAL-ADICUP360](#)

Arduino form factor compatible
ARM Cortex-M3 Development
Platform

[EVAL-ADICUP3029](#)

Arduino based Wireless
Development Platform for
Internet of Things applications
based on an ultra-low power
ARM Cortex-M3 processor

Reference Designs

Welcome to the InnovateFPGA & SoC Design Contest held by Intel, Terasic, and Analog Devices.

Buy

Pricing displayed is based on 1-piece.

A myAnalog account is required.
You must be logged in before proceeding

EVAL-CN0357-ARDZ Production	Evaluation Board	Per 1 Unit \$55.00	Yes
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Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.

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