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EVAL-CN0216-ARDZ



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# EVAL-CN0216-ARDZ

Arduino Compatible High Gain Weigh Scale Design  
(CN0216)

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## Features

- Form Factor Compatible with Arduino
- Usable for 4- or 6- wire sensors
- High gain of 400, for wide bridge sensor ranges
- Low power, single supply operation

## Applicable Parts

- [AD7791](#)
- [ADA4528-1](#)
- [ADP3301](#)

## Package Contents

- EVAL-CN0216-ARDZ Board
- Design Support CD

## Product Details

CN-0216 is a precision weigh scale signal conditioning system. It uses the AD7791, a low power buffered 24-bit sigma-delta ADC along with dual external ADA4528-1 zero-drift amplifiers. This solution allows for high dc gain with a single supply.

This circuit allows great flexibility in designing a custom low-level signal conditioning front end that gives the user the ability to easily optimize the overall transfer function of the combined sensor-amplifier-converter circuit.



[3 See All](#)[1 User Guides](#)[1 Circuit Notes](#)[1 Videos](#)

## CN0216 Shield Evaluation Board User Guide

[WIKI](#)

## CN-0216: Precision Weigh Scale Design Using the AD7791 24-Bit Sigma-Delta ADC with External ADA4528-1 Zero-Drift Amplifiers

[PDF](#)

596 kB

## Getting Started with the CN0216 Arduino Shield

Learn about the CN0216 Arduino shield, and how to use it within a system. Setup a real world application example using...

## Software

[3 See All](#)[1 Device Drivers](#)[2 Evaluation Software](#)

## 3rd Party Ecosystem Products

[STMicroelectronics Nucleo-F411RE](#)[ARM® mbed Driver](#)

## CN0216 C Project using ADICUP360

[WIKI](#)

## Example Projects using CN0216

## Related Hardware



### Development Platform

#### Eval-ADICUP360

Arduino form factor compatible ARM Cortex-M3 Development Platform

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### Evaluation Boards

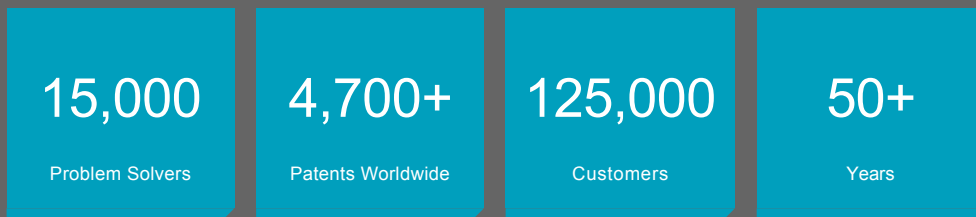
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Model	Description	Price	RoHS
EVAL-CN0216-ARDZ Production	Evaluation Board		Yes

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