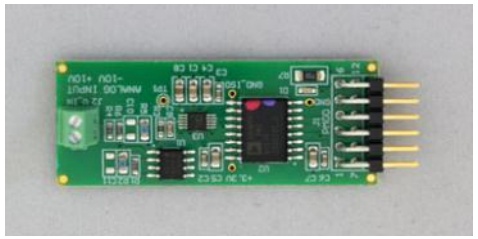
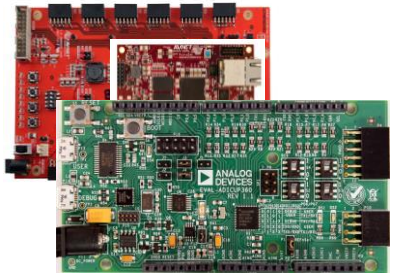
Modular Approach to Designing and Prototyping Solutions

ADI / 3rd Party Vendors

ADI



ADI / Partners



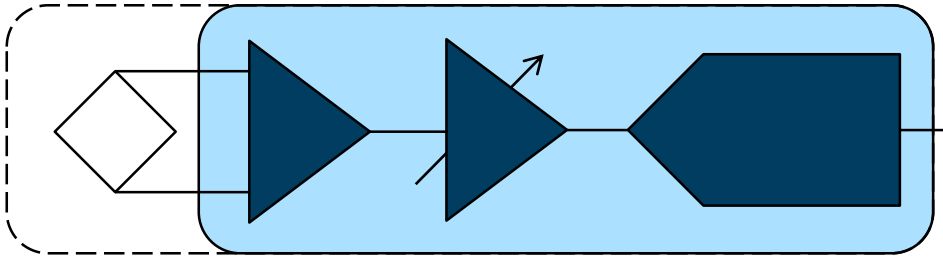
ADI

```
#include <stdio.h>

main()
{
    int array[100], n, c;

    printf("Enter the number of elements in array\n");
    scanf("%d", &n);

    printf("Enter %d elements\n", n);

    for ( c = 0 ; c < n ; c++ )
        scanf("%d", &array[c]);

    printf("Array elements entered by you are:\n");

    for ( c = 0 ; c < n ; c++ )
        printf("array[%d] = %d\n", c, array[c]);

    return 0;
}
```

ADI / Partners

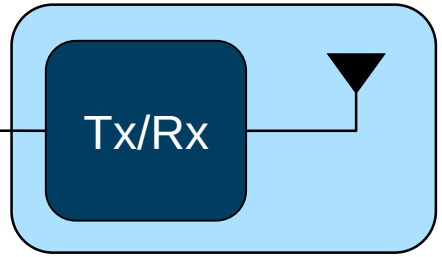
WiFi
BluTooth
Other
Zigbee
Wireless HART

PMODs/Shields



µC

PMODs/Shields/Modules



Sensors

Use many sensors from vendor partners: *Honeywell, Omron, Alphasense, Hamamatsu*

Conditioning/Conversion

Many different PMOD/Arduino Compatible form factor signal conditioning boards from ADI

FPGA/Processor

Use customers processor/ FPGA to connect to: *ADI, Xilinx, Arduino, Microchip, Renasas, ST*

Software

Provide *C code, Linux drivers, No-OS drivers, HDL code*, and other software that a customer can use in their own design

Connectivity

Have different connectivity options for wireless and wired communication. Provide software and cloud connectivity using ADI and our Partners

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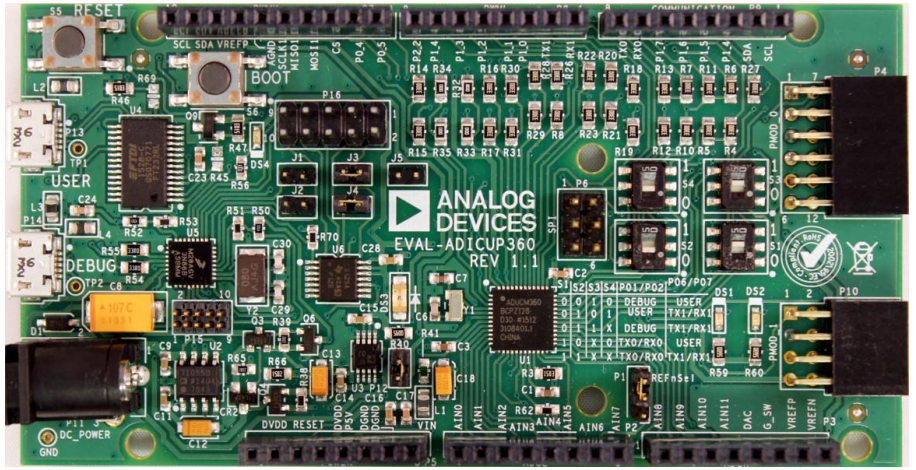
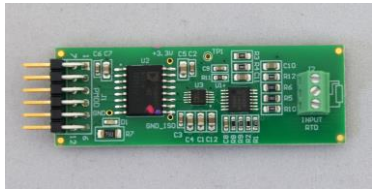
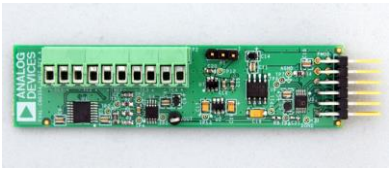
Aspects of the EVAL-ADICUP360 Ecosysytem







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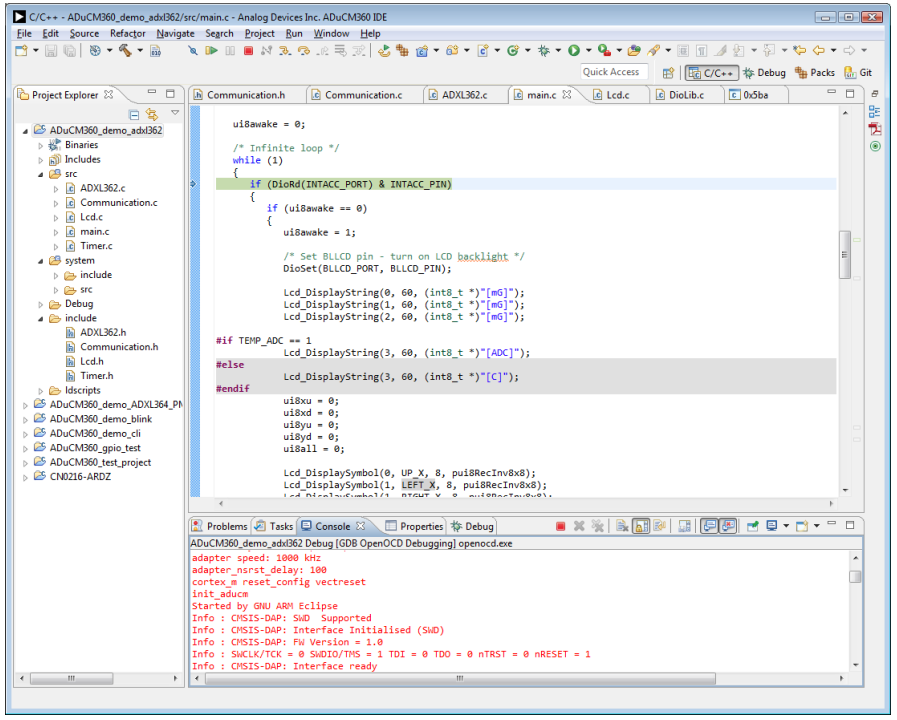
Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings

Branch: master ▾ EVAL-ADICUP360 / projects /

vlupei ADuCM360_demo_cn0326: Initial revision.

..

ADuCM360_demo_adxl362	Changed pins configuration due to HW modifications and added files re…
ADuCM360_demo_blink	projects/}/system/include/CMSIS/ADuCM360.h: Fix case in include
ADuCM360_demo_cli	projects/}/system/include/CMSIS/ADuCM360.h: Fix case in include
ADuCM360_demo_cn0326	ADuCM360_demo_cn0326: Initial revision.
ADuCM360_demo_cn0336	ADuCM360_demo_cn0336: Updated CN0336_WriteData() function + changed U…
ADuCM360_demo_cn0337	ADuCM360_demo_cn0337: Added second method to calculate RTD resistance…
ADuCM360_test_project	projects/}/system/include/CMSIS/ADuCM360.h: Fix case in include



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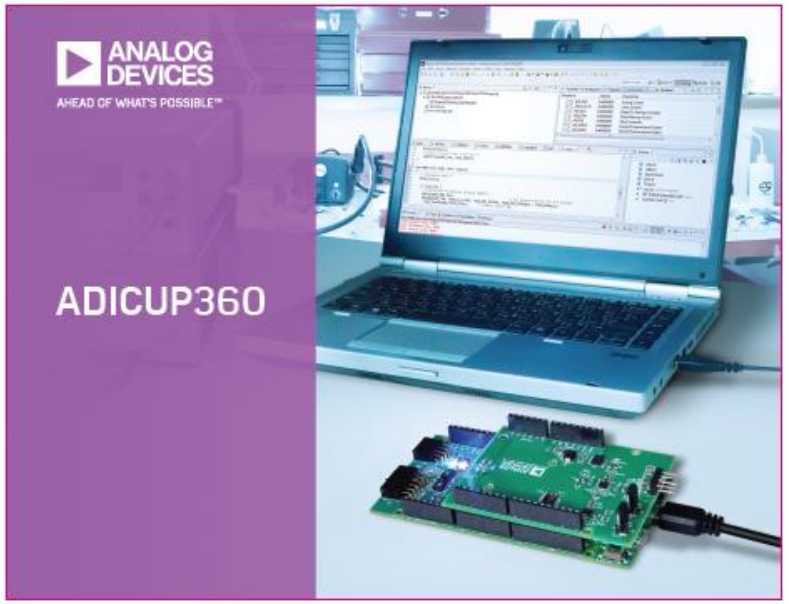
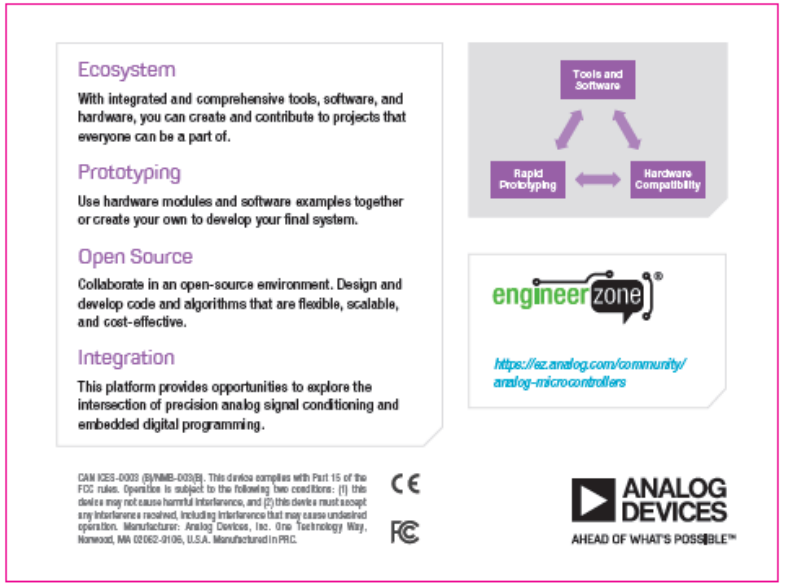
EVAL-ADICUP360 Packaging

▶ Overview

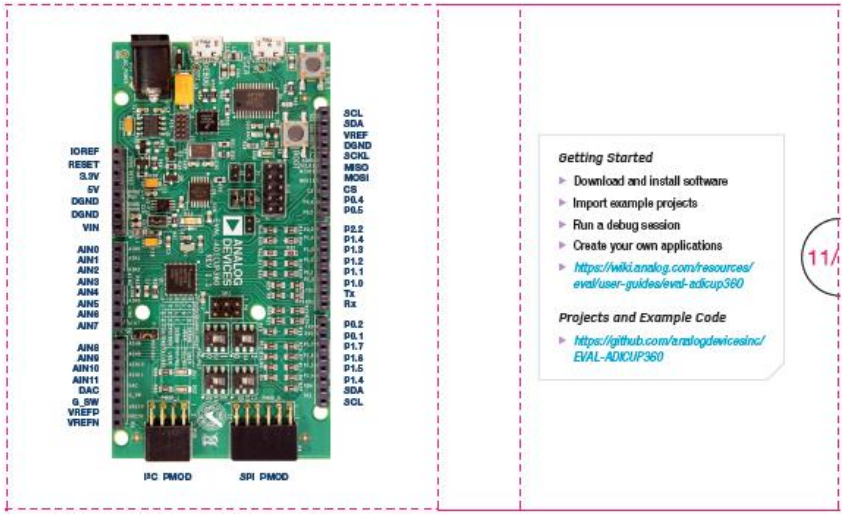
▶ Top



▶ Bottom



▶ Insert



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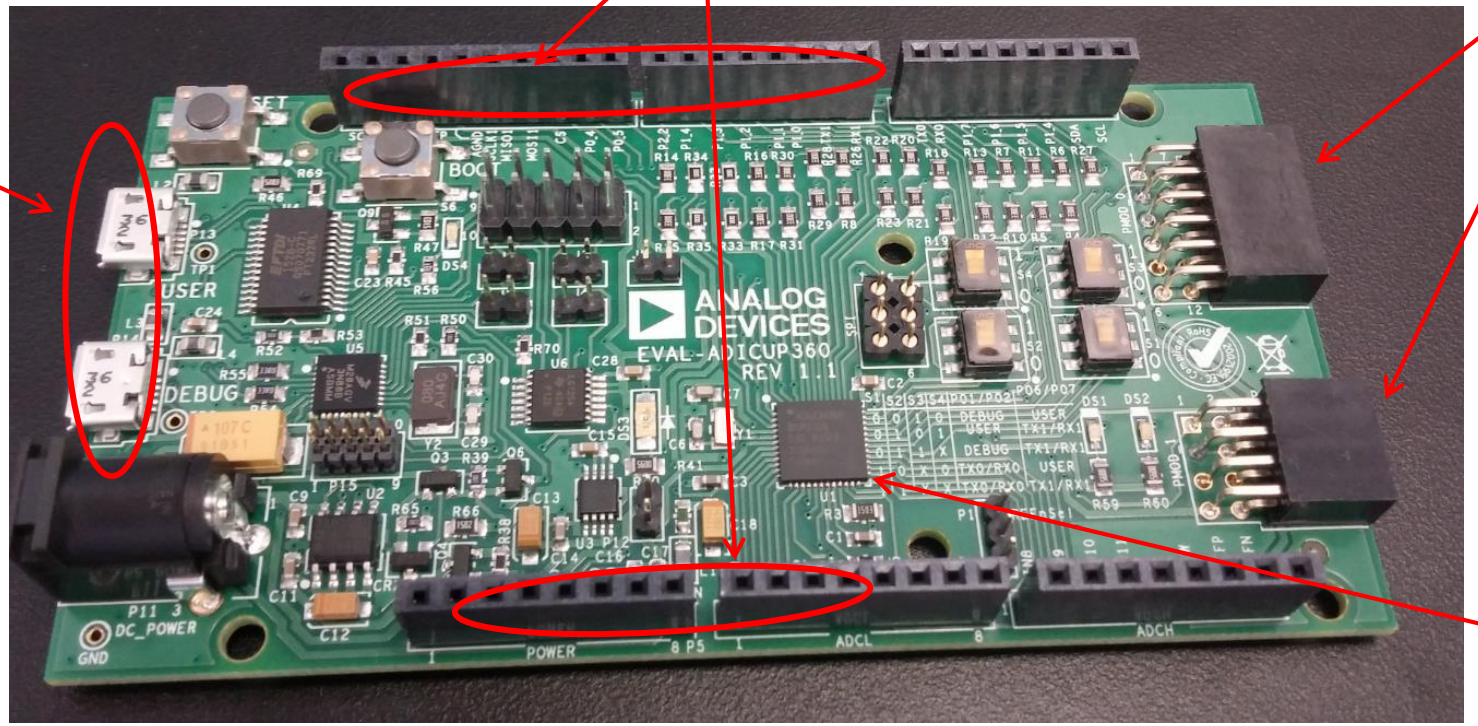
ADuCM360 Arduino Compatible Platform – 2nd Hardware

USB programming and debug, along with UART to USB serial communication

Arduino R3 compatible form factor

PMOD compatible ports, SPI and I²C



- Analog (24-bit)
- SPI
- I2C
- UART
- Flash
- DMA

ADuCM360 Microcontroller, with dual 24-bit sigma delta ADCs and ARM Cortex M3

- FCC and CE certified

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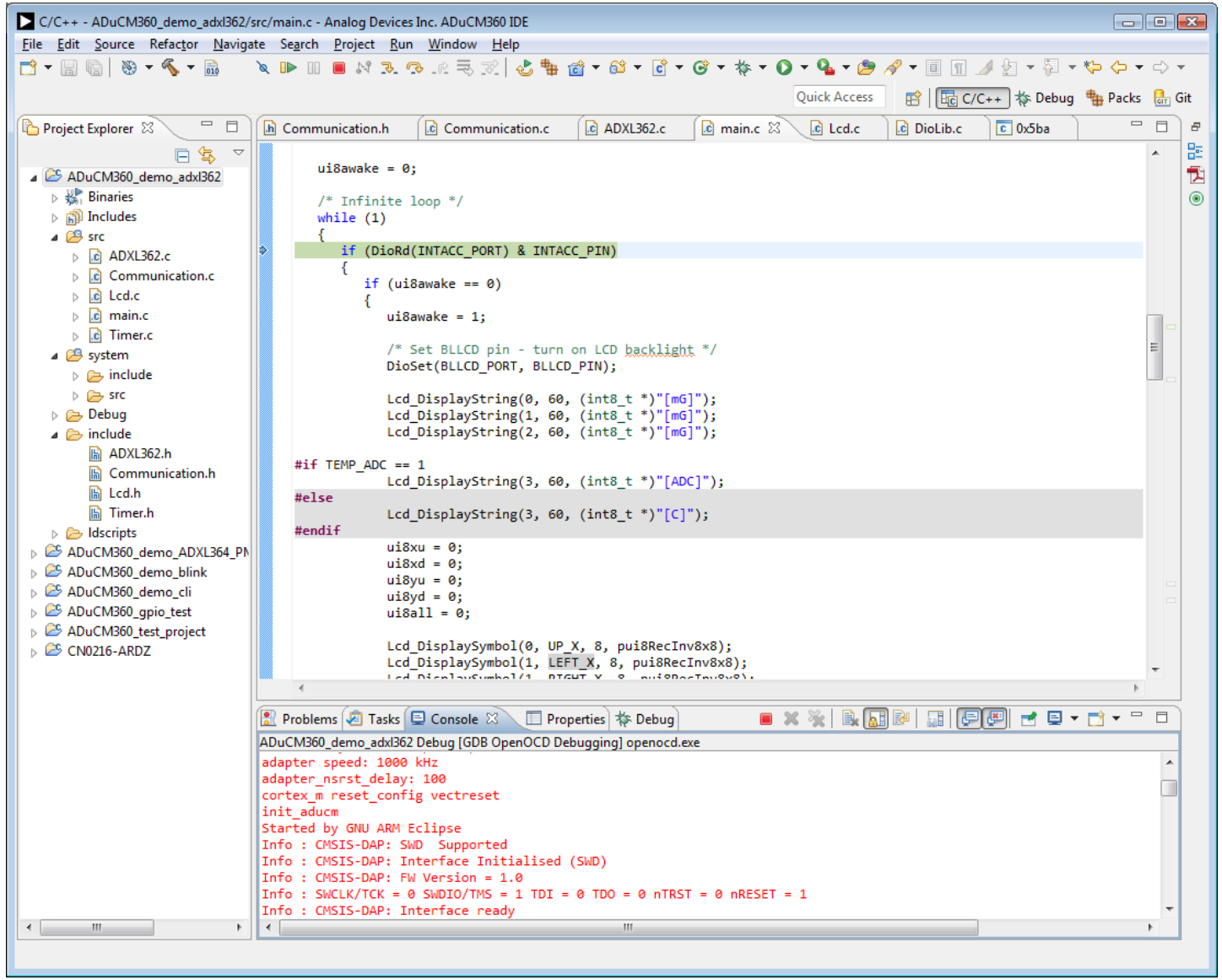
ADuCM360 Arduino Eclipse IDE

Customized IDE
- Eclipse based (open source)
- ADI plug-ins
- ADuCM360 specific

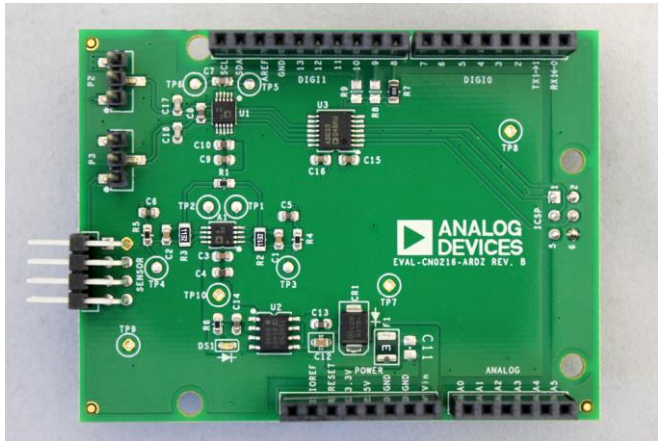
Open source tool chain
- Open source GCC/GDB
- GNU ARM Tools
- OpenOCD
- CMSIS-DAP

ADI Content
- C Code examples
- Hardware examples
- Low level device drivers



Arduino Shield Boards for ADuCM360 Launch

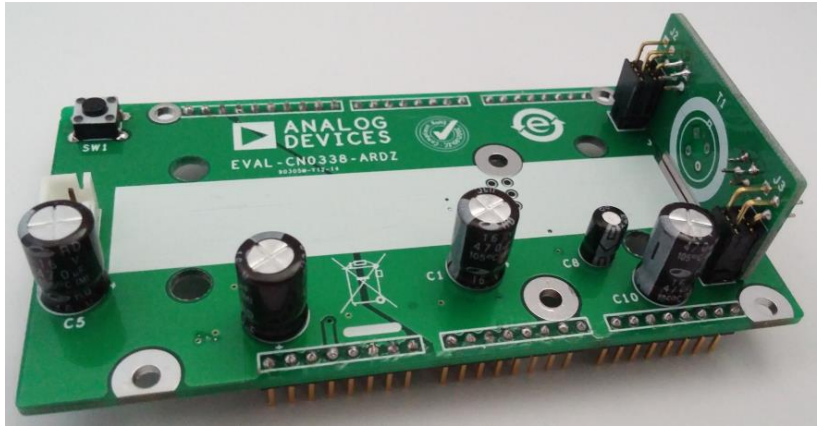
- CN0216 Weigh Scale shield



- CN0357 Toxic Gas Sensing shield

- ADXL362 Accelerometer shield

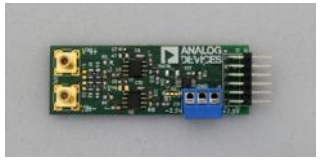
- CN0338 NDIR Gas Sensing shield

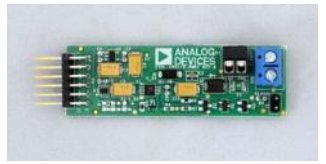


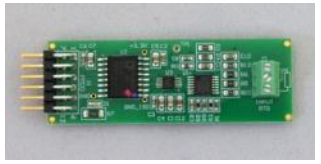
ADI PMOD Compatible Boards

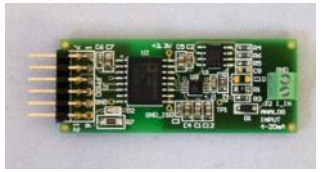
Reference Designs	Application
CN0179	4-20mA output
CN0336	4-20mA input
CN0335	0-10V input
CN0216	Weight Scale
CN0355	Differential Pres.
CN0337	RTD measurement
CN0354	Thermocouple
CN0326	pH Measurement
CN0332	MR Speed
CN0346	Humidity sensor
CN0349	Conductivity
CN0350	Piezoelectric Vib.
CN0357	Gas Detection
CN0370	LED Control

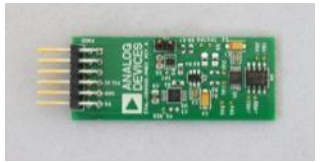
Reference Designs	Application
CN0363	Colorimeter
CN0365	High Temp DAQ
CN0372	Energy Harvest DAQ
10 Ld. PulSAR	16-,18- ADC w/Driver
ADF7242	RF Transceiver











http://wiki.analog.com/resources/alliances/xilinx#pmod_compatible_boards

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