AD1204

8/12-Bit 4-Ch Analog to Digital Converter

FEATURES

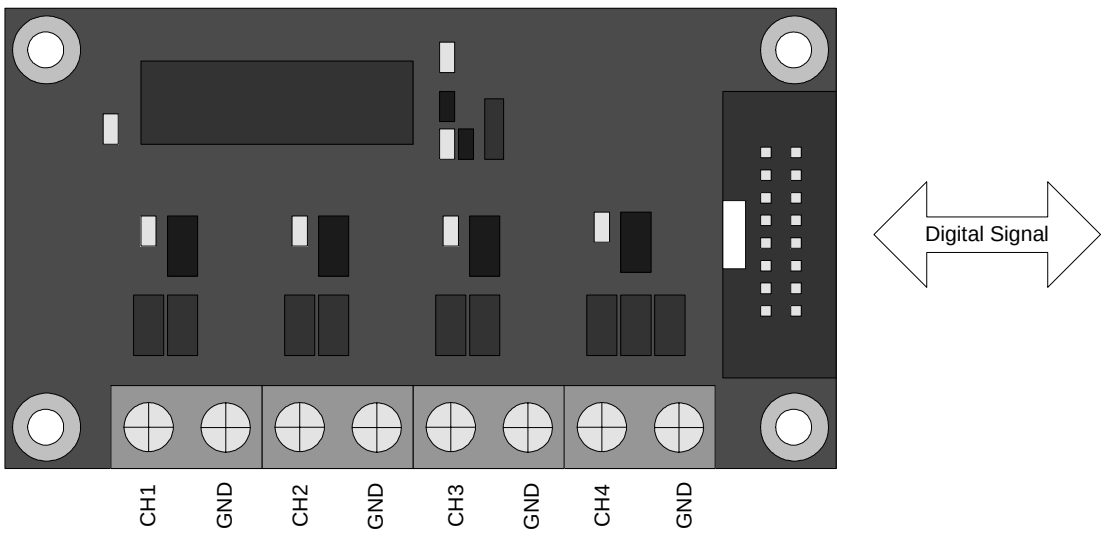
- 8/12 bits resolution
- 4-ch single-end or 2-ch differential
- 5VDC MAX analog input voltage
- 0-20mA , 4-20mA input current
- up to 200KHz conversion rate
- +/-1LSB relative accuracy
- +/-1LSB MAX INL and DNL
- over input voltage protection
- single supply 2.7V to 5V

Order Code

AD1204V : AD1204 without current sensor resister, for voltage input
AD1204C : AD1204 with current sensor resister, for current input

AD1204 is analog to digital converter board. The board uses ADS7841PB analog to digital converter chip from Burr-Brown Texas for signal converter. AD1204V supports 0-5VDC input voltage also AD1204C supports 0-20mA and 4-20mA input current from instrument sensors. This board can select single-end or differential mode and 8 or 12 bit resolution by software. For power down mode, both software and hardware can used. The board has over input voltage protection circuit for protecting ADS7841PB. The AD1204 has high accuracy, +/- 1LSB and high sampling rate up to 200KHz.

BOARD CONNECTOR

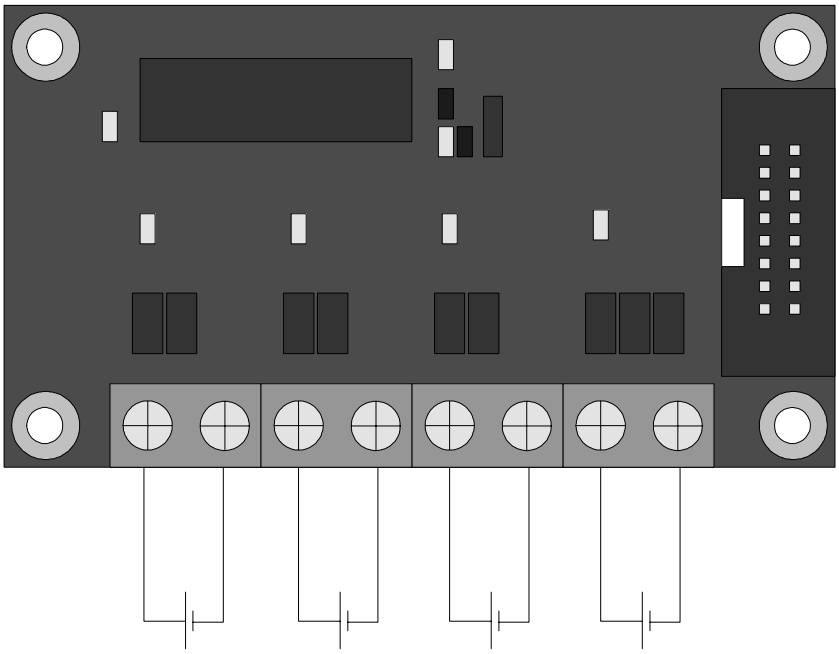


ERE050630

VOLTAGE INPUT SIGNALS

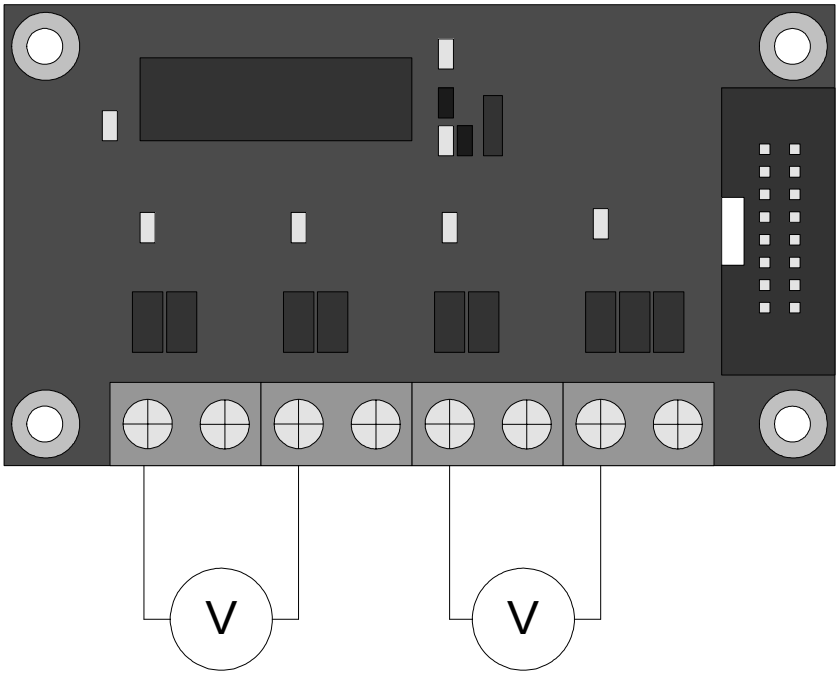
For AD1204V used for 0-5VDC input. It can use in two mode, 4-channel single-end and 2-channel differential mode.

4 Channels Single-End Input



AD1204V

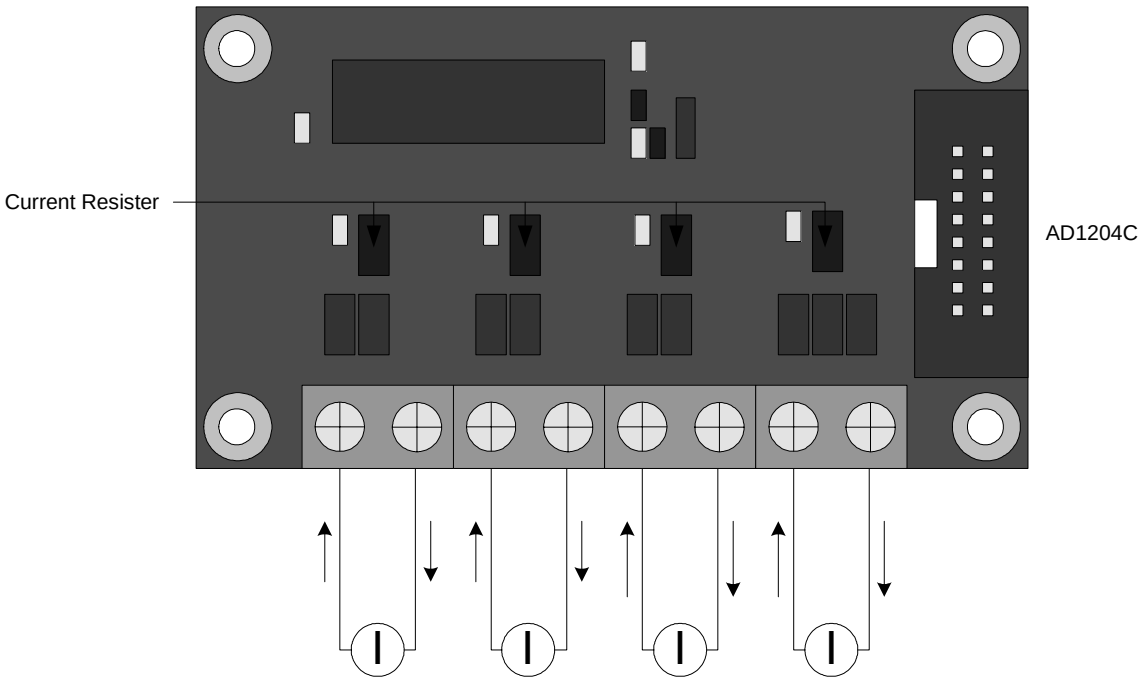
2 Channels Difference Input



AD1204V

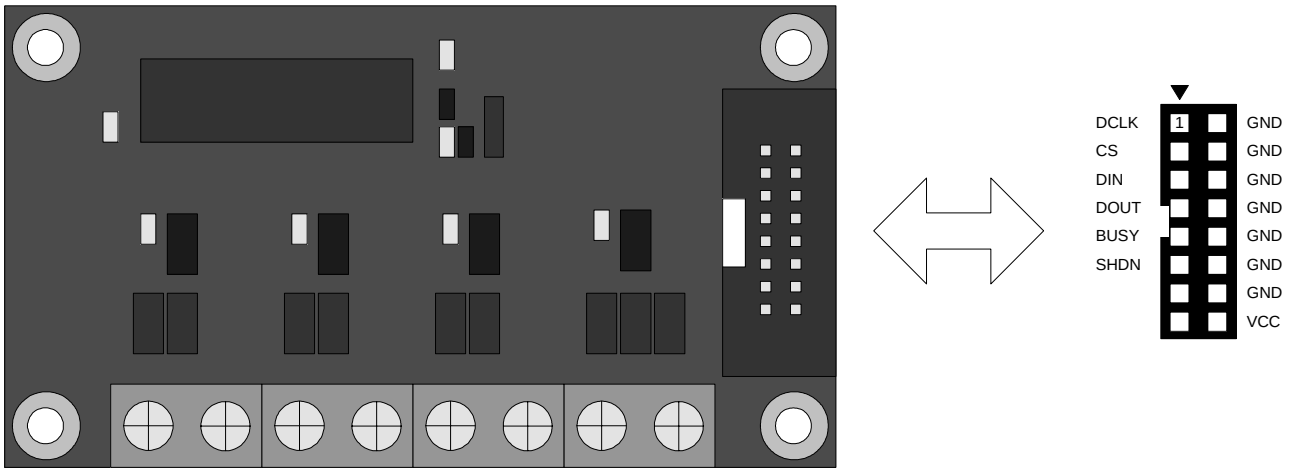
CURRENT INPUT SIGNAL

For AD1204C, used for 0-20mA, 4-20mA current input from instrument sensor.



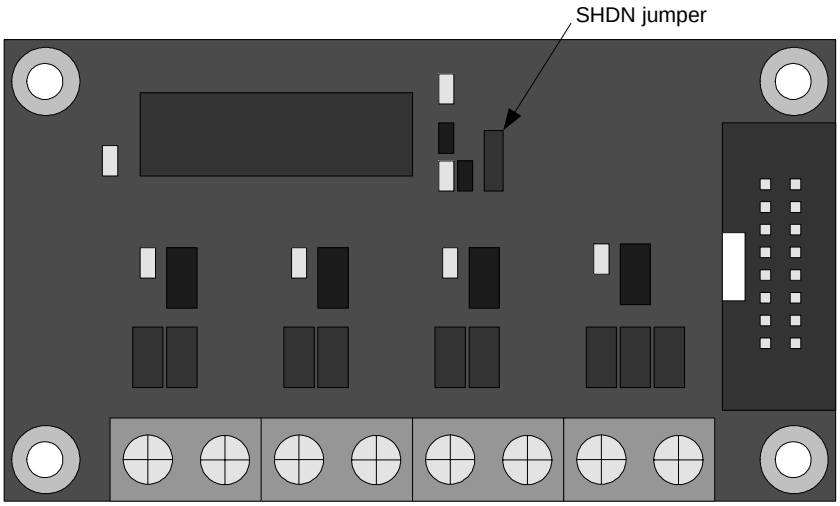
DIGITAL SIGNAL

The board interface to controller board in serial communication that can work in 2.7V - 5V operating voltage.

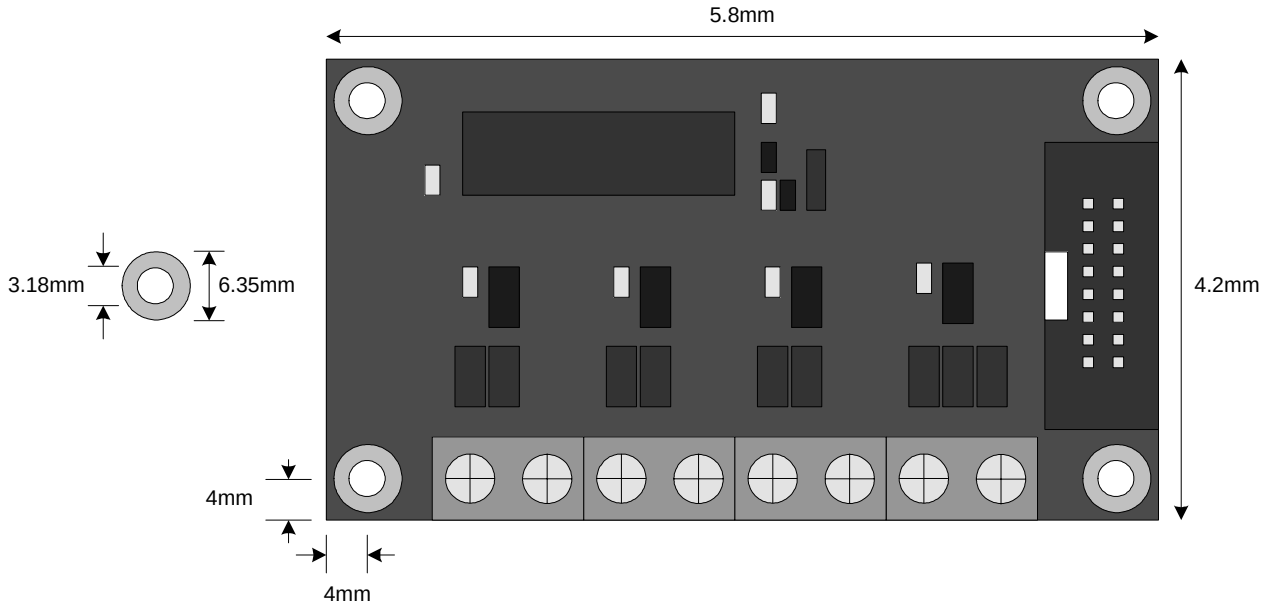


POWER DOWN MODE

ADS7841PB is set into power down mode by software or hardware mode. The software power down,close SHDN jumper is needed. But in hardware power down, the SHDN jumper need opened.Refer the schematic for more information.



BOARD DIMENSION



ERE050630