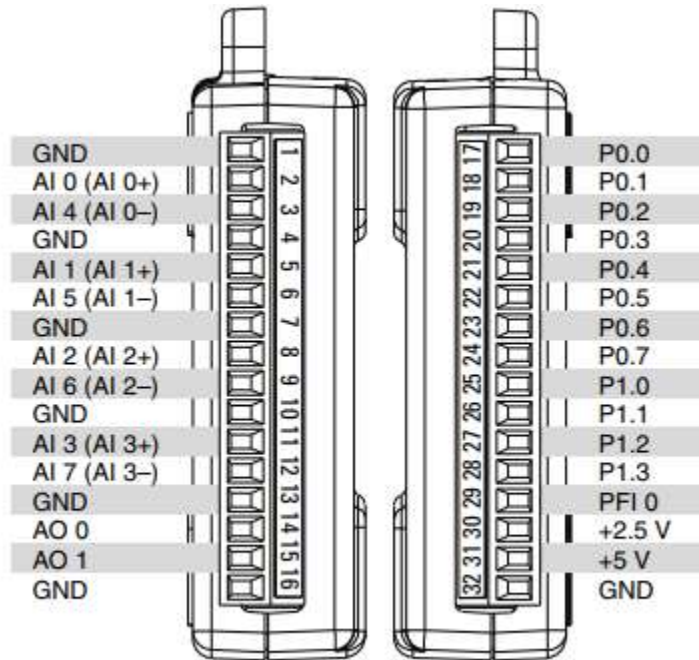


NI USB 6008



Signal Name	Reference	Direction	Description
GND	—	—	Ground —The reference point for the single-ended analog input measurements, analog output voltages, digital signals, +5 VDC supply, and +2.5 VDC at the I/O connector, and the bias current return point for differential mode measurements.
AI <0..7>	Varies	Input	Analog Input Channels 0 to 7 —For single-ended measurements, each signal is an analog input voltage channel. For differential measurements, AI 0 and AI 4 are the positive and negative inputs of differential analog input channel 0. The following signal pairs also form differential input channels: AI <1, 5>, AI <2, 6>, and AI <3, 7>. Refer to the <i>Analog Input</i> section for more information.

Signal Name	Reference	Direction	Description
AO <0, 1>	GND	Output	Analog Output Channels 0 and 1 —Supplies the voltage output of AO channel 0 or AO channel 1. Refer to the <i>Analog Output</i> section for more information.
P0.<0..7>	GND	Input or Output	Port 0 Digital I/O Channels 0 to 7 —You can individually configure each signal as an input or output. Refer to the <i>Digital I/O</i> section for more information.
P1.<0..3>	GND	Input or Output	Port 1 Digital I/O Channels 0 to 3 —You can individually configure each signal as an input or output. Refer to the <i>Digital I/O</i> section for more information.
PFI 0	GND	Input	PFI 0 —This pin is configurable as either a digital trigger or an event counter input. Refer to the <i>PFI 0</i> section for more information.
+2.5 V	GND	Output	+2.5 V External Reference —Provides a reference for wrap-back testing. Refer to the <i>+2.5 V External Reference</i> section for more information.
+5 V	GND	Output	+5 V Power Source —Provides +5 V power up to 200 mA. Refer to the <i>+5 V Power Source</i> section for more information.

Product	USB-6008
Analog Inputs	8 single-ended/4 differential
Input Resolution	12
Max Sampling Rate (kS/s)	10
Analog Outputs	2
Output Resolution	12
Output Rate (Hz)	150
Digital I/O Lines	12
32-Bit Counter	1
Triggering	Digital