NI 625*x* Specifications

Specifications listed below are typical at 25 °C unless otherwise noted. Refer to the *M Series User Manual* for more information about NI 625*x* devices.

Analog Input

Number of channels
- NI 6250/6251 ..... 8 differential or 16 single ended
- NI 6254/6259 ..... 16 differential or 32 single ended
- NI 6255 ..... 40 differential or 80 single ended

ADC resolution ..... 16 bits

DNL ..... No missing codes guaranteed

INL ..... Refer to the *AI Absolute Accuracy Table*

Sampling rate
- Maximum
  - NI 6250/6251/6254/6259 ..... 1.25 MS/s single channel, 1.00 MS/s multi-channel (aggregate)
  - NI 6255 ..... 1.25 MS/s single channel 750 kS/s multi-channel (aggregate)
- Minimum ..... No minimum
- Timing accuracy ..... 50 ppm of sample rate
- Timing resolution ..... 50 ns

Input coupling ..... DC

Input range ..... ±10 V, ±5 V, ±2 V, ±1 V, ±0.5 V, ±0.2 V, ±0.1 V

Maximum working voltage for analog inputs (signal + common mode) ..... ±11 V of AI GND

CMRR (DC to 60 Hz) ..... 100 dB

Input impedance
- Device on
  - AI+ to AI GND ..... >10 GΩ in parallel with 100 pF
  - AI– to AI GND ..... >10 GΩ in parallel with 100 pF
- Device off
  - AI+ to AI GND ..... 820 Ω
  - AI– to AI GND ..... 820 Ω

Input bias current ..... ±100 pA

Crosstalk (at 100 kHz)
- Adjacent channels ..... –75 dB
- Non-adjacent channels ..... –95 dB

Small signal bandwidth (–3 dB) ..... 1.7 MHz

Input FIFO size ..... 4,095 samples

Scan list memory ..... 4,095 entries

Data transfers
- PCI/PCIe/PXI/PXIe devices ..... DMA (scatter-gather), interrupts, programmed I/O
- USB devices ..... USB Signal Stream, programmed I/O

Overvoltage protection (AI <0..79>, AI SENSE, AI SENSE 2)
- Device on ..... ±25 V for up to four AI pins
- Device off ..... ±15 V for up to four AI pins

Input current during overvoltage condition ..... ±20 mA max/AI pin

NATIONAL INSTRUMENTS

Settling Time for Multichannel Measurements

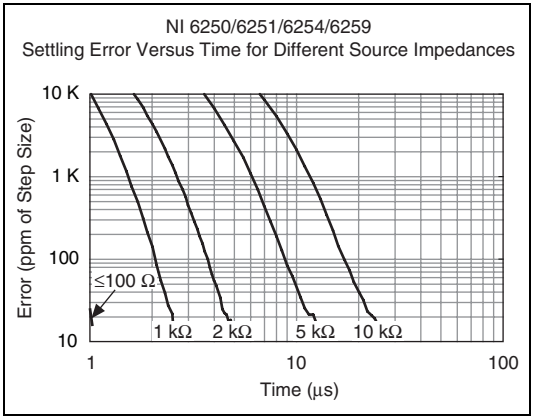
NI 6250/6251/6254/6259

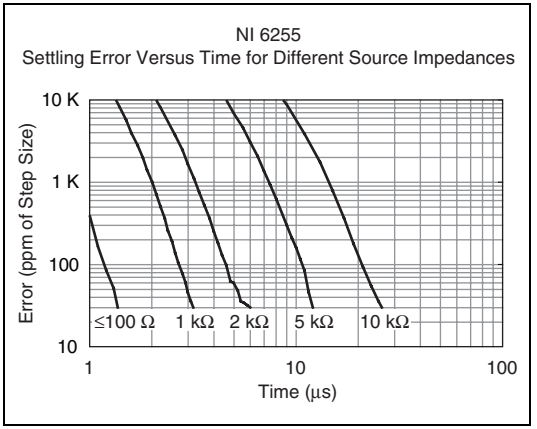
Range	±60 ppm of Step (±4 LSB for Full Scale Step)	±15 ppm of Step (±1 LSB for Full Scale Step)
±10 V, ±5 V, ±2 V, ±1 V	1 µs	1.5 µs
±0.5 V	1.5 µs	2 µs
±0.2 V, ±0.1 V	2 µs	8 µs

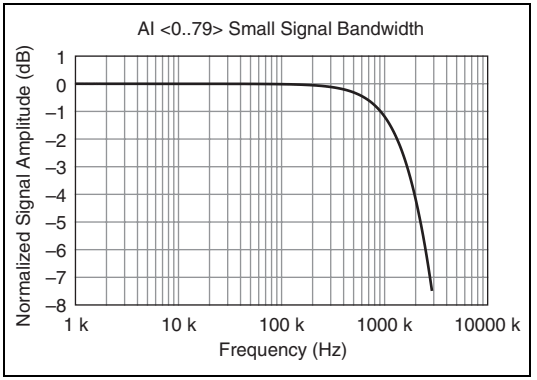
NI 6255

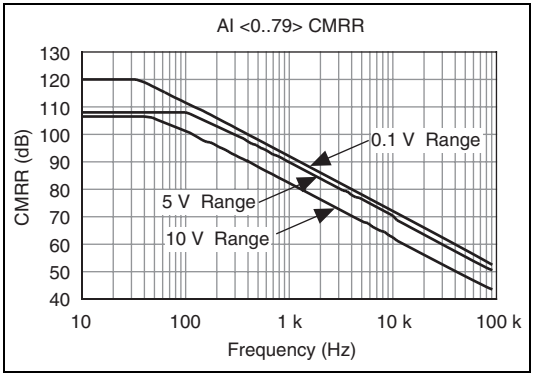
Range	±60 ppm of Step (±4 LSB for Full Scale Step)	±15 ppm of Step (±1 LSB for Full Scale Step)
±10 V, ±5 V, ±2 V, ±1 V	1.3 µs	1.6 µs
±0.5 V	1.8 µs	2.5 µs
±0.2 V, ±0.1 V	3 µs	8 µs

Typical Performance Graphs









Analog Triggers

Number of triggers 1

Source
- NI 6250/6251 ..... AI <0..15>, APFI 0
- NI 6254/6259 ..... AI <0..31>, APFI <0..1>
- NI 6255 ..... AI <0..79>, APFI 0

Functions ..... Start Trigger, Reference Trigger, Pause Trigger, Sample Clock, Convert Clock, Sample Clock Timebase

Source level
- AI <0..79> ..... ±full scale
- APFI <0..1> ..... ±10 V

Resolution ..... 10 bits, 1 in 1,024

Modes ..... Analog edge triggering, analog edge triggering with hysteresis, and analog window triggering

Bandwidth (–3 dB)
- AI <0..79> ..... 3.4 MHz
- APFI <0..1> ..... 3.9 MHz

Accuracy ..... ±1%

APFI <0..1> characteristics
- Input impedance ..... 10 kΩ
- Coupling ..... DC
- Protection
  - Power on ..... ±30 V
  - Power off ..... ±15 V

Analog Output

Number of channels
- NI 6250/6254 0
- NI 6251/6255 2
- NI 6259 4

DAC resolution ..... 16 bits

DNL ..... ±1 LSB

Monotonicity ..... 16 bit guaranteed

Accuracy ..... Refer to the *AO Absolute Accuracy Table*

Maximum update rate
- 1 channel ..... 2.86 MS/s
- 2 channels ..... 2.00 MS/s
- 3 channels ..... 1.54 MS/s
- 4 channels ..... 1.25 MS/s

Timing accuracy ..... 50 ppm of sample rate

Timing resolution ..... 50 ns

Output range ..... ±10 V, ±5 V, ±external reference on APFI <0..1>

Output coupling ..... DC

Output impedance ..... 0.2 Ω

Output current drive ..... ±5 mA

Overdrive protection ..... ±25 V

Overdrive current ..... 20 mA

Power-on state ..... ±5 mV[1]

Power-on glitch ..... 1.5 V peak for 1.5 s

Output FIFO size ..... 8,191 samples shared among channels used

Data transfers
- PCI/PCIe/PXI/PXIe devices ..... DMA (scatter-gather), interrupts, programmed I/O
- USB devices ..... USB Signal Stream, programmed I/O

[1] For all USB-6251/6259 devices, when powered on, the analog output signal is not defined until after USB configuration is complete.

AO waveform modes:

- Non-periodic waveform
- Periodic waveform regeneration mode from onboard FIFO
- Periodic waveform regeneration from host buffer including dynamic update

Settling time, full scale step
15 ppm (1 LSB) .....2 µs

Slew rate .....20 V/µs

Glitch energy at midscale transition, ±10 V range

Magnitude .....10 mV

Duration .....1 µs

External Reference

APFI <0..1> characteristics

Input impedance.....10 kΩ

Coupling.....DC

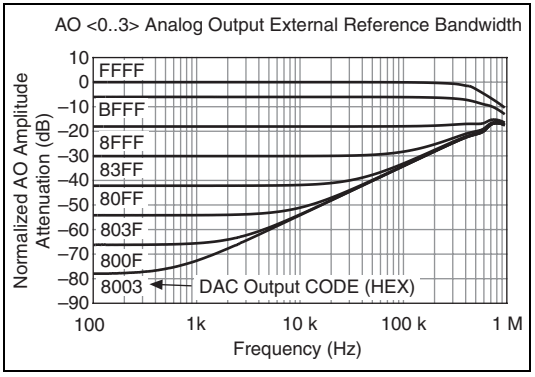
Protection

Power on.....±30 V

Power off .....±15 V

Range.....±11 V

Slew rate .....20 V/µs



Calibration (AI and AO)

Recommended warm-up time .....15 minutes

Calibration interval.....2 years

AI Absolute Accuracy Table

Nominal Range		Residual Gain Error (ppm of Reading)	Gain Tempco (ppm/°C)	Reference Tempco	Residual Offset Error (ppm of Range)	Offset Tempco (ppm of Range/°C)	INL Error (ppm of Range)	Random Noise, σ (μVrms)	Absolute Accuracy at Full Scale[1] (μV)	Sensitivity[2] (μV)
Positive Full Scale	Negative Full Scale									
10	–10	60	13	1	20	21	60	280	1,920	112.0
5	–5	70	13	1	20	21	60	140	1,010	56.0
2	–2	70	13	1	20	24	60	57	410	22.8
1	–1	80	13	1	20	27	60	32	220	12.8
0.5	–0.5	90	13	1	40	34	60	21	130	8.4
0.2	–0.2	130	13	1	80	55	60	16	74	6.4
0.1	–0.1	150	13	1	150	90	60	15	52	6.0

Accuracies listed are valid for up to two years from the device external calibration.

AbsoluteAccuracy = Reading · (GainError) + Range · (OffsetError) + NoiseUncertainty

GainError = ResidualAIGainError + GainTempco · (TempChangeFromLastInternalCal) + ReferenceTempco · (TempChangeFromLastExternalCal)

OffsetError = ResidualAIOffsetError + OffsetTempco · (TempChangeFromLastInternalCal) + INL_Error

$$\text{NoiseUncertainty} = \frac{\text{RandomNoise} \cdot 3}{\sqrt{100}}$$ For a coverage factor of 3 σ and averaging 100 points.

[1] Absolute accuracy at full scale on the analog input channels is determined using the following assumptions:

TempChangeFromLastExternalCal = 10 °C

TempChangeFromLastInternalCal = 1 °C

number_of_readings = 100

CoverageFactor = 3 σ

For example, on the 10 V range, the absolute accuracy at full scale is as follows:

GainError = 60 ppm + 13 ppm · 1 + 1 ppm · 10 GainError = 83 ppm

OffsetError = 20 ppm + 21 ppm · 1 + 60 ppm OffsetError = 101 ppm

$$\text{NoiseUncertainty} = \frac{275\ \mu\text{V} \cdot 3}{\sqrt{100}}$$ NoiseUncertainty = 83 μV

AbsoluteAccuracy = 10 V · (GainError) + 10 V · (OffsetError) + NoiseUncertainty AbsoluteAccuracy = 1920 μV

[2] Sensitivity is the smallest voltage change that can be detected. It is a function of noise.

AO Absolute Accuracy Table

Nominal Range		Residual Gain Error (ppm of Reading)	Gain Tempco (ppm/°C)	Reference Tempco	Residual Offset Error (ppm of Range)	Offset Tempco (ppm of Range/°C)	INL Error (ppm of Range)	Absolute Accuracy at Full Scale[1] (μV)
Positive Full Scale	Negative Full Scale							
10	–10	75	17	1	40	2	64	2,080
5	–5	85	8	1	40	2	64	1,045

[1] Absolute Accuracy at full scale numbers is valid immediately following internal calibration and assumes the device is operating within 10 °C of the last external calibration. Accuracies listed are valid for up to two years from the device external calibration.

AbsoluteAccuracy = OutputValue · (GainError) + Range · (OffsetError)
GainError = ResidualGainError + GainTempco · (TempChangeFromLastInternalCal) + ReferenceTempco · (TempChangeFromLastExternalCal)
OffsetError = ResidualOffsetError + AOOffsetTempco · (TempChangeFromLastInternalCal) + INL_Error

Digital I/O/PFI

Static Characteristics

Number of channels
- NI 6250/6251/6255 ..... 24 total, 8 (P0.<0..7>), 16 (PFI <0..7>/P1, PFI <8..15>/P2)
- NI 6254/6259 ..... 48 total, 32 (P0.<0..31>), 16 (PFI <0..7>/P1, PFI <8..15>/P2)
- Ground reference ..... D GND

Direction control ..... Each terminal individually programmable as input or output

Pull-down resistor ..... 50 kΩ typ, 20 kΩ min

Input voltage protection[1] ..... ±20 V on up to two pins

Waveform Characteristics (Port 0 Only)

Terminals used
- NI 6250/6251/6255 ..... Port 0 (P0.<0..7>)
- NI 6254/6259 ..... Port 0 (P0.<0..31>)

Port/sample size
- NI 6250/6251/6255 ..... Up to 8 bits
- NI 6254/6259 ..... Up to 32 bits

Waveform generation (DO) FIFO ... 2,047 samples

Waveform acquisition (DI) FIFO ... 2,047 samples

DI Sample Clock frequency
- PCI/PCIe/PXI/PXIe devices ..... 0 to 10 MHz[2]
- USB devices ..... 0 to 1 MHz system dependent[2]

DO Sample Clock frequency
- PCI/PCIe/PXI/PXIe devices
  - Regenerate from FIFO ..... 0 to 10 MHz
  - Streaming from memory ..... 0 to 10 MHz system dependent[2]
- USB devices
  - Regenerate from FIFO ..... 0 to 10 MHz
  - Streaming from memory ..... 0 to 1 MHz system dependent[2]

Data transfers
- PCI/PCIe/PXI/PXIe devices ..... DMA (scatter-gather), interrupts, programmed I/O
- USB devices ..... USB Signal Stream, programmed I/O

DO or DI Sample Clock source[3] ..... Any PFI, RTSI, AI Sample or Convert Clock, AO Sample Clock, Ctr *n* Internal Output, and many other signals

PFI/Port 1/Port 2 Functionality

Functionality ..... Static digital input, static digital output, timing input, timing output

Timing output sources ..... Many AI, AO, counter, DI, DO timing signals

Debounce filter settings ..... 125 ns, 6.425 µs, 2.54 ms, disable; high and low transitions; selectable per input

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[1] Stresses beyond those listed under *Input voltage protection* may cause permanent damage to the device.

[2] Performance can be dependent on bus latency and volume of bus activity.

[3] The digital subsystem does not have its own dedicated internal timing engine. Therefore, a sample clock must be provided from another subsystem on the device or an external source.

Recommended Operation Conditions

PCI/PCIe/PXI/PXIe devices

Level	Min	Max
Input high voltage (V_{IH})	2.2 V	5.25 V
Input low voltage (V_{IL})	0 V	0.8 V
Output high current (I_{OH})		
P0.<0..31>	—	–24 mA
PFI <0..15>/P1/P2	—	–16 mA
Output low current (I_{OL})		
P0.<0..31>	—	24 mA
PFI <0..15>/P1/P2	—	16 mA

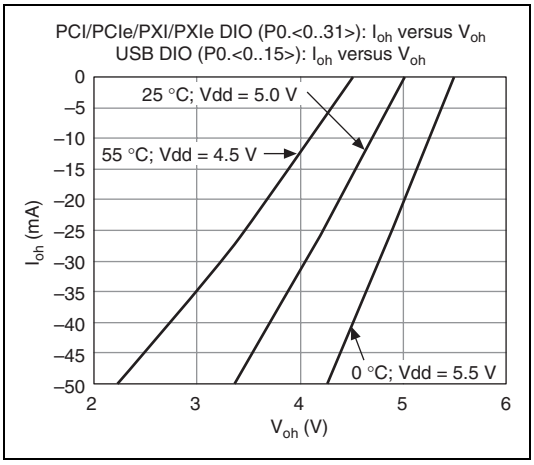
USB devices

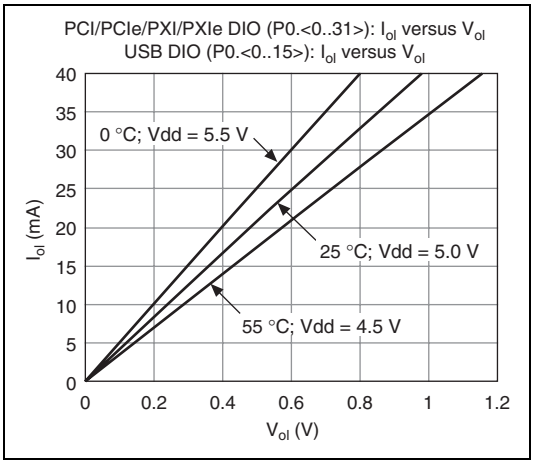
Level	Min	Max
Input high voltage (V_{IH})	2.2 V	5.25 V
Input low voltage (V_{IL})	0 V	0.8 V
Output high current (I_{OH})		
P0.<0..15>	—	–24 mA
P0.<16..31>	—	–16 mA
PFI <0..15>/P1/P2	—	–16 mA
Output low current (I_{OL})		
P0.<0..15>	—	24 mA
P0.<16..31>	—	16 mA
PFI <0..15>/P1/P2	—	16 mA

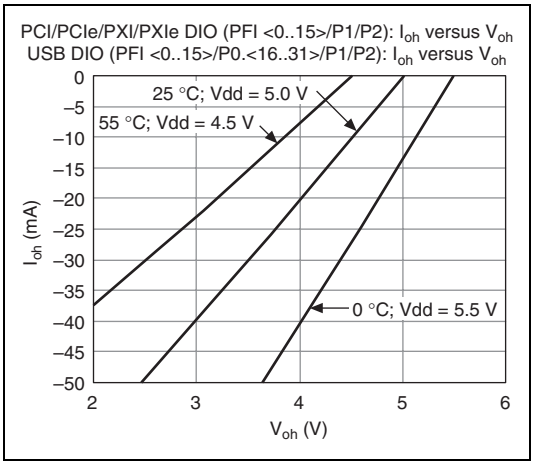
Electrical Characteristics

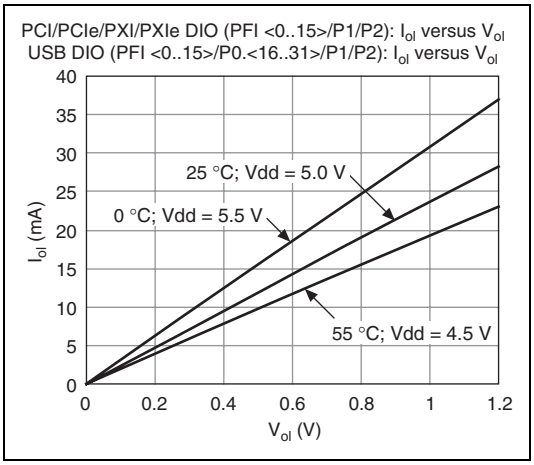
Level	Min	Max
Positive-going threshold (VT+)	—	2.2 V
Negative-going threshold (VT–)	0.8 V	—
Delta VT hysteresis (VT+ – VT–)	0.2 V	—
I_{IL} input low current (V_{in} = 0 V)	—	–10 µA
I_{IH} input high current (V_{in} = 5 V)	—	250 µA

Digital I/O Characteristics









General-Purpose Counter/Timers

Number of counter/timers 2

Resolution.....32 bits

Counter measurements .....Edge counting, pulse, semi-period, period, two-edge separation

Position measurements.....X1, X2, X4 quadrature encoding with Channel Z reloading; two-pulse encoding

Output applications.....Pulse, pulse train with dynamic updates, frequency division, equivalent time sampling

Internal base clocks .....80 MHz, 20 MHz, 0.1 MHz

External base clock frequency.....0 MHz to 20 MHz

Base clock accuracy .....50 ppm

Inputs.....Gate, Source, HW_Arm, Aux, A, B, Z, Up_Down

Routing options for inputs.....Any PFI, RTSI, PXI_TRIG, PXI_STAR, analog trigger, many internal signals

FIFO .....2 samples

Data transfers

- PCI/PCIe/PXI/PXIe devices .....Dedicated scatter-gather DMA controller for each counter/timer; interrupts, programmed I/O
- USB devices.....USB Signal Stream, programmed I/O

Frequency Generator

Number of channels.....1

Base clocks.....10 MHz, 100 kHz

Divisors .....1 to 16

Base clock accuracy .....50 ppm

Output can be available on any PFI or RTSI terminal.

Phase-Locked Loop (PLL)

Number of PLLs 1

Reference signal..... PXI_STAR, PXI_CLK10, RTSI <0..7>

Output of PLL..... 80 MHz Timebase; other signals derived from 80 MHz Timebase including 20 MHz and 100 kHz Timebases

External Digital Triggers

Source ..... Any PFI, RTSI, PXI_TRIG, PXI_STAR

Polarity..... Software-selectable for most signals

Analog input function ..... Start Trigger, Reference Trigger, Pause Trigger, Sample Clock, Convert Clock, Sample Clock Timebase

Analog output function ..... Start Trigger, Pause Trigger, Sample Clock, Sample Clock Timebase

Counter/timer functions ..... Gate, Source, HW_Arm, Aux, A, B, Z, Up_Down

Digital waveform generation (DO) function..... Sample Clock

Digital waveform acquisition (DI) function ..... Sample Clock

Device-To-Device Trigger Bus

PCI/PCIe devices ..... RTSI <0..7>[1]

PXI/PXIe devices..... PXI_TRIG <0..7>, PXI_STAR

USB devices..... None

Output selections..... 10 MHz Clock; frequency generator output; many internal signals

Debounce filter settings ..... 125 ns, 6.425 µs, 2.54 ms, disable; high and low transitions; selectable per input

Bus Interface

PCI/PXI/PXIe devices ..... 3.3 V or 5 V signal environment

PCIe devices

- Form factor..... x1 PCI Express, specification v1.0a compliant
- Slot compatibility ..... x1, x4, x8, and x16 PCI Express slots[2]

USB devices..... USB 2.0 Hi-Speed or full-speed[3,4]

DMA channels (PCI/PCIe/PXI/PXIe devices)..... 6, analog input, analog output, digital input, digital output, counter/timer 0, counter/timer 1

USB Signal Stream (USB devices)..... 4, can be used for analog input, analog output, digital input, digital output, counter/timer 0, counter/timer 1

All PXI-625*x* devices support one of the following features:

- May be installed in PXI Express hybrid slots
- Or, may be used to control SCXI in PXI/SCXI combo chassis

Table 1. PXI and PXI Express Chassis

Device	Part Number	SCXI Control in PXI/SCXI Combo Chassis	PXI Express Hybrid Slot Compatible
PXI-6250	191325D-04	No	Yes
PXI-6251	191325D-03	No	Yes
	191325D-13	Yes	No
PXI-6254	191325D-02	No	Yes
PXI-6255	193618A-01	No	Yes
PXI-6259	191325D-01	No	Yes
	191325D-11	Yes	No
Earlier versions of PXI-625*x*	191325C-0*x* 191325B-0*x*	Yes	No

All NI PXIe-625*x* devices may be installed in PXI Express slots or PXI Express hybrid slots.

Power Requirements

Current draw from bus during no-load condition[5]

PCI/PXI devices

- +5 V.....0.03 A
- +3.3 V.....0.725 A
- +12 V.....0.35 A

PCIe devices

- +3.3 V.....0.925 A
- +12 V.....0.35 A

[1] In other sections of this document, *RTSI* refers to RTSI <0..7> for PCI/PCIe devices or PXI_TRIG <0..7> for PXI/PXIe devices.

[2] Some motherboards reserve the x16 slot for graphics use. For PCI Express guidelines, refer to `ni.com/pciexpress`.

[3] If you are using a USB M Series device in full-speed mode, device performance will be lower and you will not be able to achieve maximum sampling/update rates.

[4] Operating on a full-speed bus may result in lower high-speed full-speed performance.

[5] Does not include P0/PFI/P1/P2 and +5 V terminals.

PXIe devices

+3.3 V.....0.45 A

+12 V.....0.5 A

Current draw from bus during AI and AO overvoltage condition[1]

PCI/PXI devices

+5 V.....0.03 A

+3.3 V.....1.2 A

+12 V.....0.38 A

PCIe devices

+3.3 V.....1.4 A

+12 V.....0.38 A

PXIe devices

+3.3 V.....0.48 A

+12 V.....0.71 A

Caution USB-625*x* devices *must* be powered with NI offered AC adapter or a National Electric Code (NEC) Class 2 DC source that meets the power requirements for the device and has appropriate safety certification marks for country of use.

USB power supply requirements.....11 to 30 VDC, 20 W

Power Limits

Caution Exceeding the power limits may cause unpredictable behavior by the device and/or PC/chassis.

PCI devices

+5 V terminal (connector 0).....1 A max[2]

+5 V terminal (connector 1).....1 A max[2]

PCIe devices

Without disk drive power connector installed

+5 V terminals combined .....0.35 A max[2]

P0/PFI/P1/P2 and +5 V terminals combined .....0.39 A max

With disk drive power connector installed

+5 V terminal (connector 0) ...1 A max[2]

+5 V terminal (connector 1) ...1 A max[2]

P0/PFI/P1/P2 combined .....0.39 A max

PXI/PXIe devices

+5 V terminal (connector 0).....1 A max[2]

+5 V terminal (connector 1).....1 A max[2]

P0/PFI/P1/P2 and +5 V terminals combined ..... 2 A max

USB devices

+5 V terminal ..... 1 A max[2]

P0/PFI/P1/P2 and +5 V terminals combined ..... 2 A max

Power supply fuse ..... 2 A, 250 V

Physical Requirements

Printed circuit board dimensions

NI PCI-6250/6251/6254/6255/6259..... 9.7 × 15.5 cm (3.8 × 6.1 in.)

NI PCIe-6251/6259 ..... 9.9 × 16.8 cm (3.9 × 6.6 in.) (half-length)

NI PXI/PXIe-6250/6251/6254/6255/6259..... Standard 3U PXI

Enclosure dimensions (includes connectors)

NI USB-6251/6259 ..... 26.67 × 17.09 × 4.45 cm (10.5 × 6.73 × 1.75 in.)

NI USB-6251/6259 Mass Termination..... 18.8 × 17.09 × 4.45 cm (7.4 × 6.73 × 1.75 in.)

Weight

NI PCI-6250 ..... 142 g (5 oz)

NI PCI-6251 ..... 149 g (5.2 oz)

NI PCI-6254 ..... 152 g (5.3 oz)

NI PCI-6255 ..... 164 g (5.8 oz)

NI PCI-6259 ..... 162 g (5.6 oz)

NI PCIe-6251 ..... 161 g (5.7 oz)

NI PCIe-6259 ..... 175 g (6.1 oz)

NI PXI-6250..... 212 g (7.5 oz)

NI PXI-6251/6254..... 222 g (7.8 oz)

NI PXI-6255..... 236 g (8.3 oz)

NI PXI-6259..... 233 g (8.2 oz)

NI PXIe-6251 ..... 215 g (7.5 oz)

NI PXIe-6259 ..... 226 g (7.9 oz)

NI USB-6251..... 1.2 kg (2 lb 10 oz)

NI USB-6259..... 1.24 kg (2 lb 11 oz)

NI USB-6251/6259 Mass Termination..... 907 g (2 lb)

NI USB-6251 OEM..... 140 g (4.9 oz)

NI USB-6259 OEM..... 172 g (6.1 oz)

[1] Does not include P0/PFI/P1/P2 and +5 V terminals.

[2] Has a self-resetting fuse that opens when current exceeds this specification.

I/O connector

NI PCI/PCIe/PXI/PXIe-6250/6251 ..... 1 68-pin VHDCI

NI PCI/PCIe/PXI/PXIe-6254/6255/6259 ..... 2 68-pin VHDCI

NI USB-6251 ..... 64 screw terminals

NI USB-6259 ..... 128 screw terminals

NI USB-6251

Mass Termination ..... 1 68-pin SCSI

NI USB-6259

Mass Termination ..... 2 68-pin SCSI

Disk drive power connector (PCIe devices) ..... Standard ATX peripheral connector (not serial ATA)

Maximum Working Voltage[1]

NI 6250/6251/6254/6255/6259

Channel-to-earth ..... 11 V, Measurement Category I

Caution Do *not* use for measurements within Categories II, III, or IV.

Environmental

Operating temperature

PCI/PXI/PXIe devices ..... 0 to 55 °C

PCIe devices ..... 0 to 50 °C

USB devices ..... 0 to 45 °C

Storage temperature ..... –20 to 70 °C

Humidity ..... 10 to 90% RH, noncondensing

Maximum altitude ..... 2,000 m

Pollution Degree (indoor use only) 2

Shock and Vibration (PXI/PXIe Devices Only)

Operational shock ..... 30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC-60068-2-27. Test profile developed in accordance with MIL-PRF-28800F.)

Random vibration

Operating ..... 5 to 500 Hz, 0.3 g_{rms}

Nonoperating ..... 5 to 500 Hz, 2.4 g_{rms} (Tested in accordance with IEC-60068-2-64. Nonoperating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

Safety

This product is designed to meet the requirements of the following standards of safety for electrical equipment for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA 61010-1

Note For UL and other safety certifications, refer to the product label or visit `ni.com/certification`, search by model number or product line, and click the appropriate link in the Certification column.

Electromagnetic Compatibility

This product is designed to meet the requirements of the following standards of EMC for electrical equipment for measurement, control, and laboratory use:

- EN 61326 EMC requirements; Minimum Immunity
- EN 55011 Emissions; Group 1, Class A
- CE, C-Tick, ICES, and FCC Part 15 Emissions; Class A

Note For EMC compliance, operate this device according to product documentation.

CE Compliance

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:

- 73/23/EEC; Low-Voltage Directive (safety)
- 89/336/EEC; Electromagnetic Compatibility Directive (EMC)

Note Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, visit `ni.com/certification`, search by model number or product line, and click the appropriate link in the Certification column.

[1] *Maximum working voltage* refers to the signal voltage plus the common-mode voltage.

Waste Electrical and Electronic Equipment (WEEE)

EU Customers At the end of their life cycle, all products must be sent to a WEEE recycling center. For more information about WEEE recycling centers and National Instruments WEEE initiatives, visit `ni.com/environment/weee.htm`.

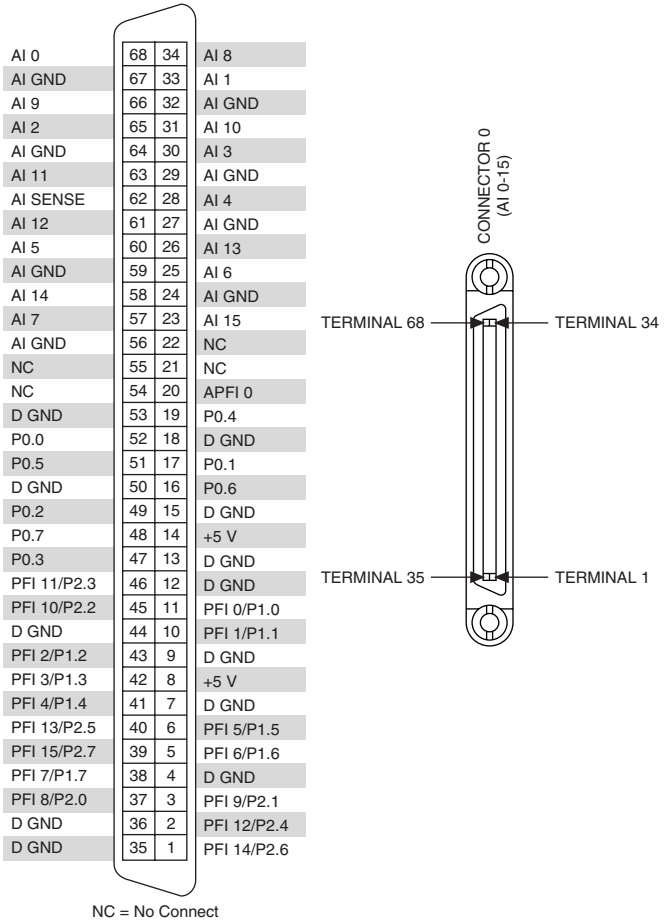


Figure 1. NI PCI/PXI-6250 Pinout

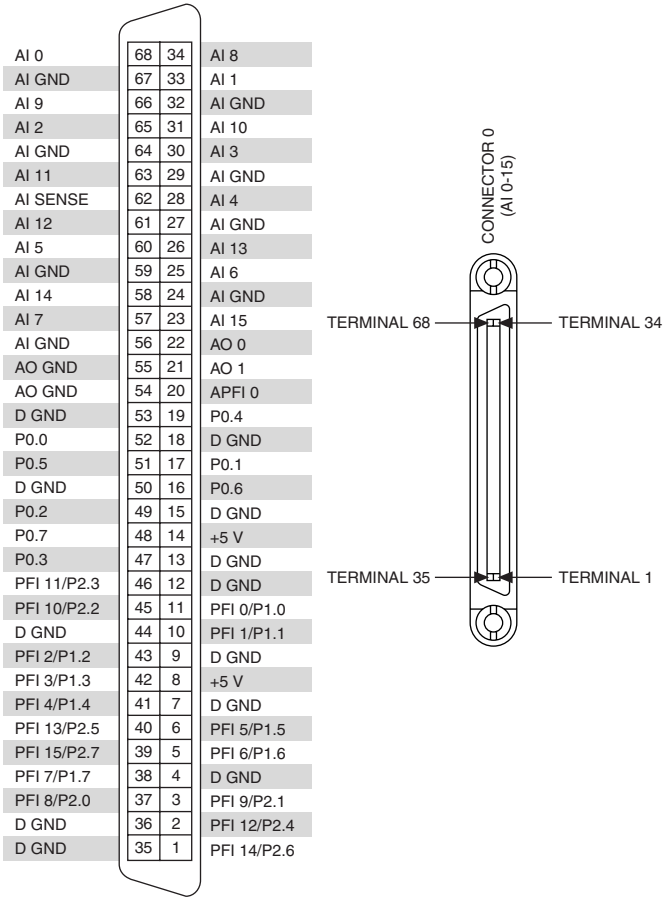


Figure 2. NI PCI/PCIe/PXI/PXIe-6251 Pinout

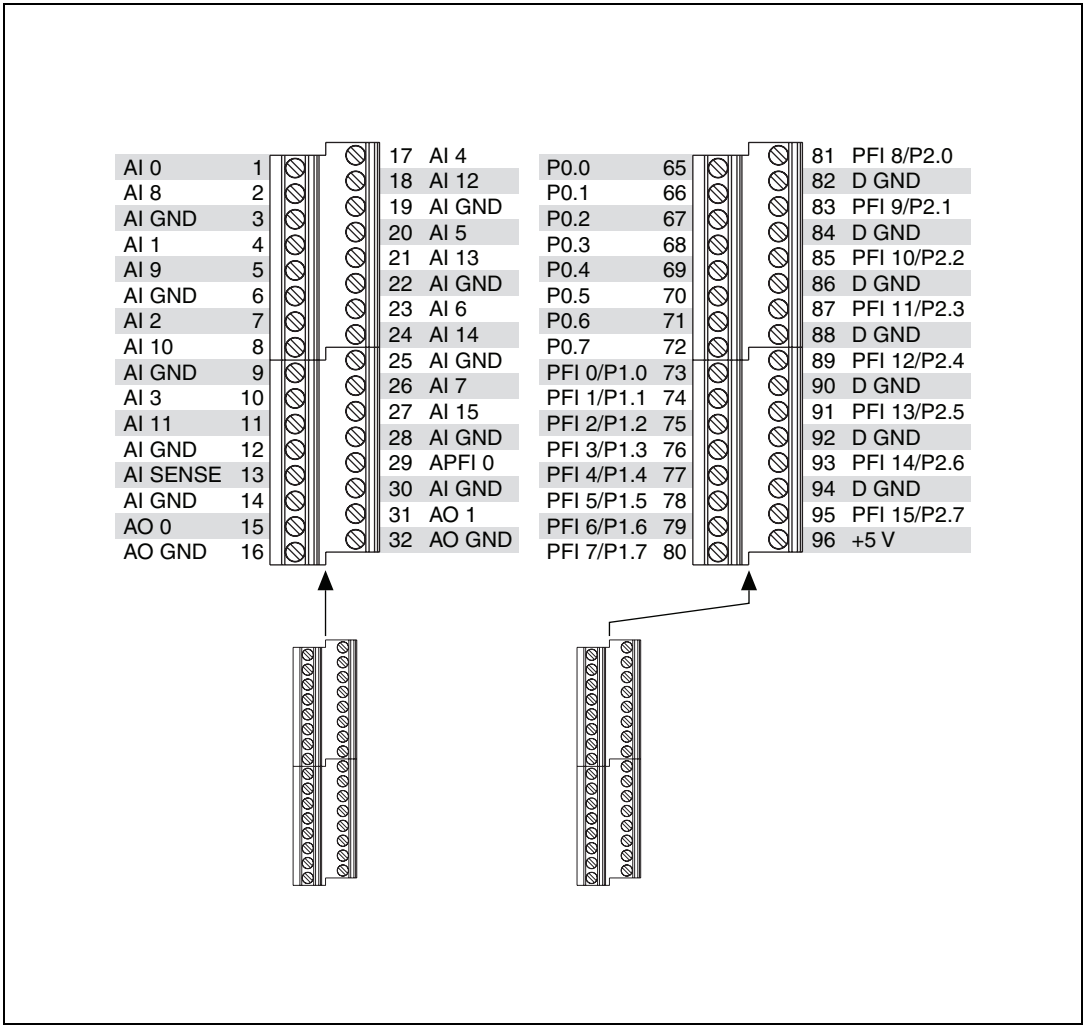


Figure 3. NI USB-6251 Pinout

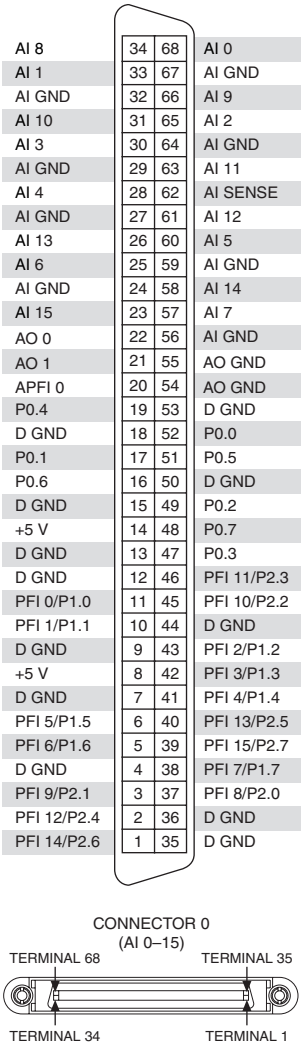


Figure 4. NI USB-6251 Mass Termination Pinout

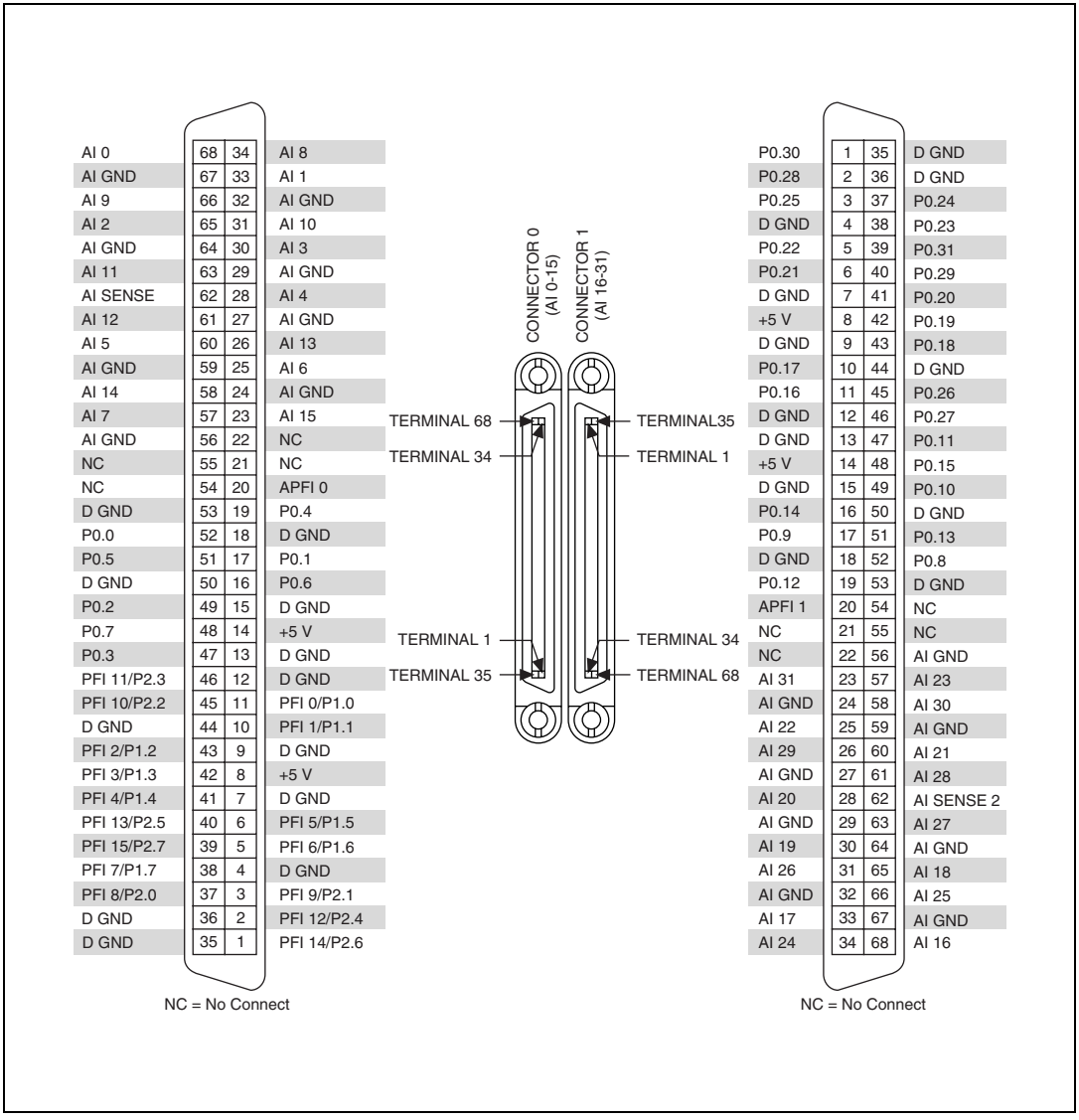


Figure 5. NI PCI/PXI-6254 Pinout

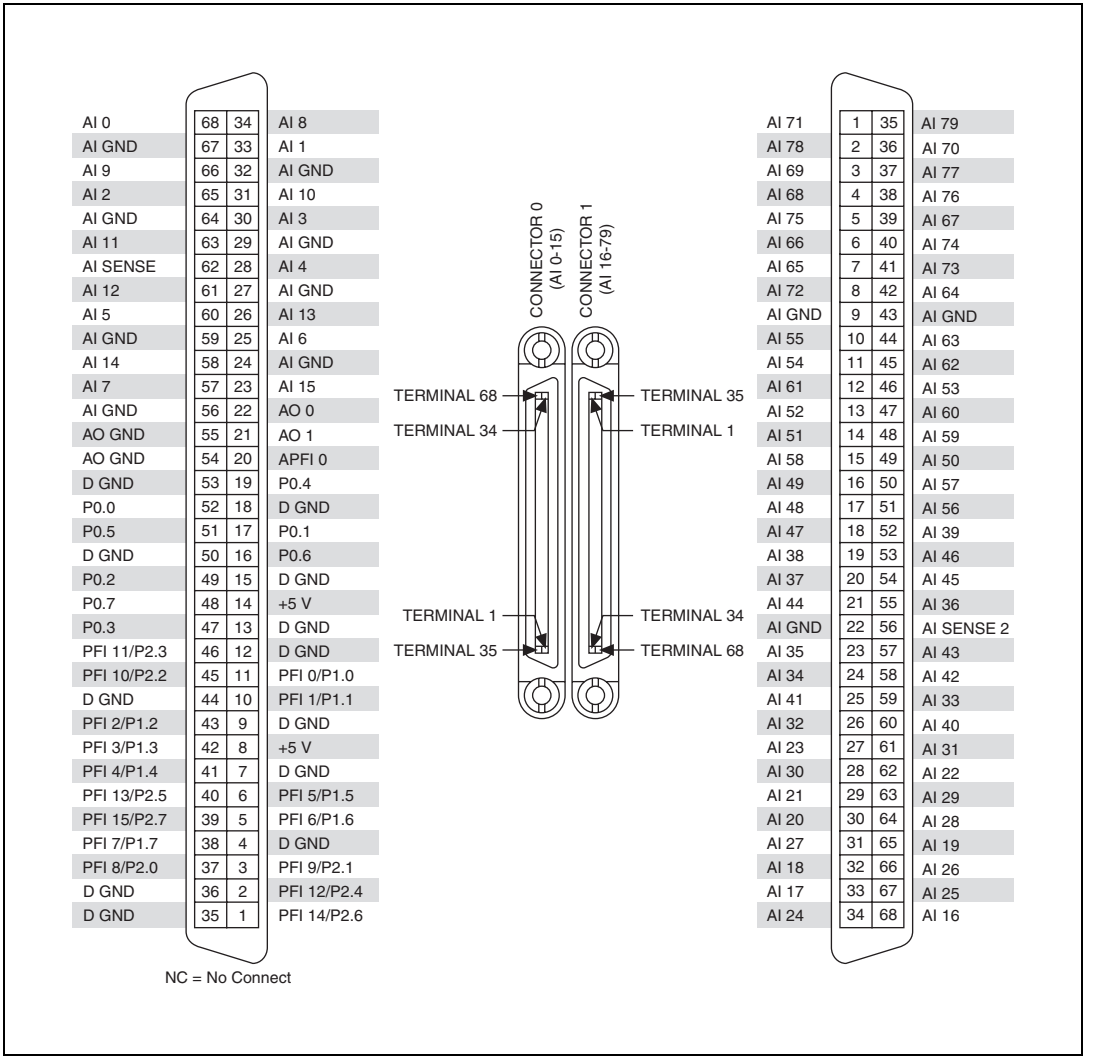


Figure 6. NI PCI/PXI-6255 Pinout

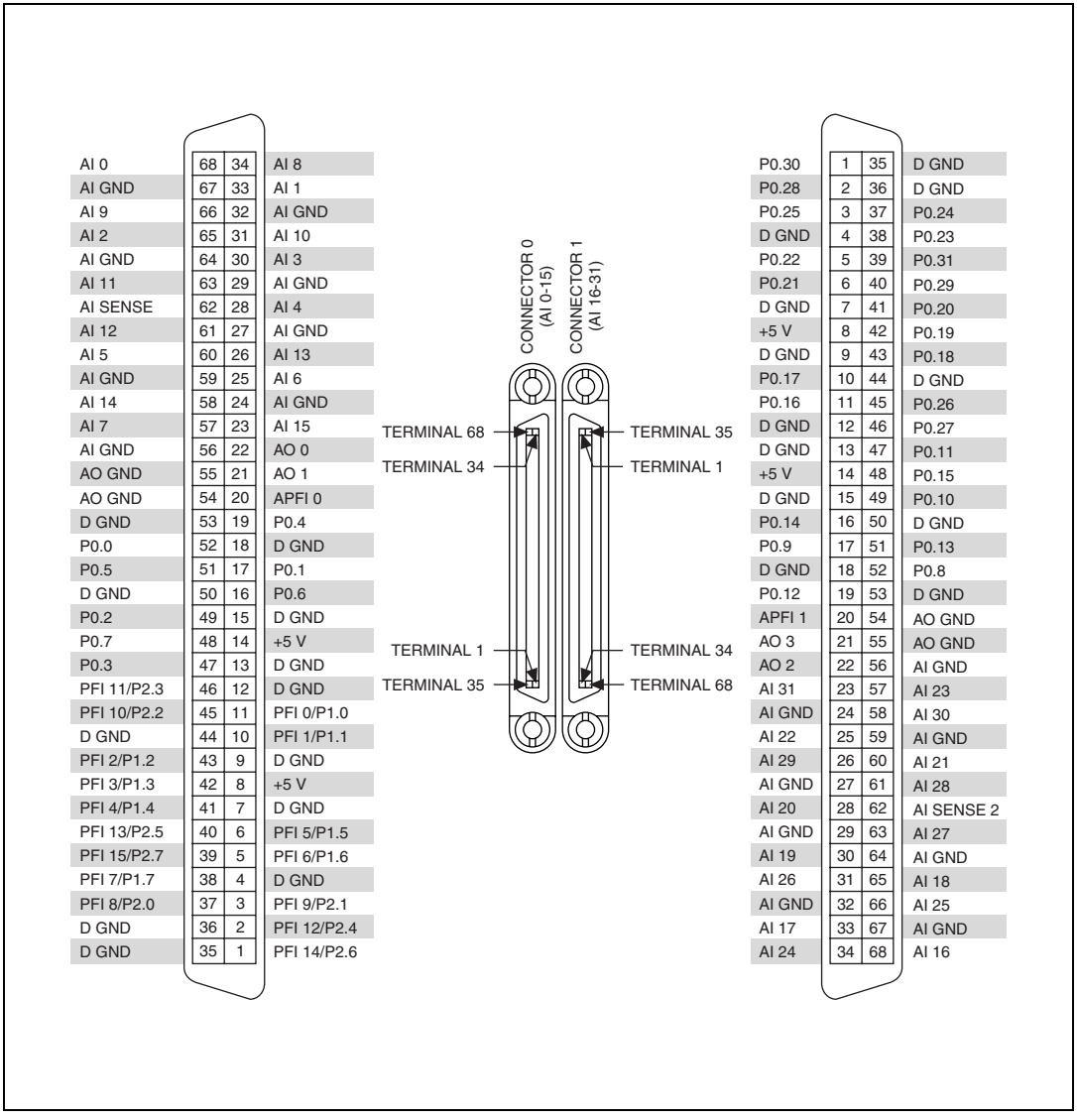


Figure 7. NI PCI/PCIe/PXI/PXIe-6259 Pinout

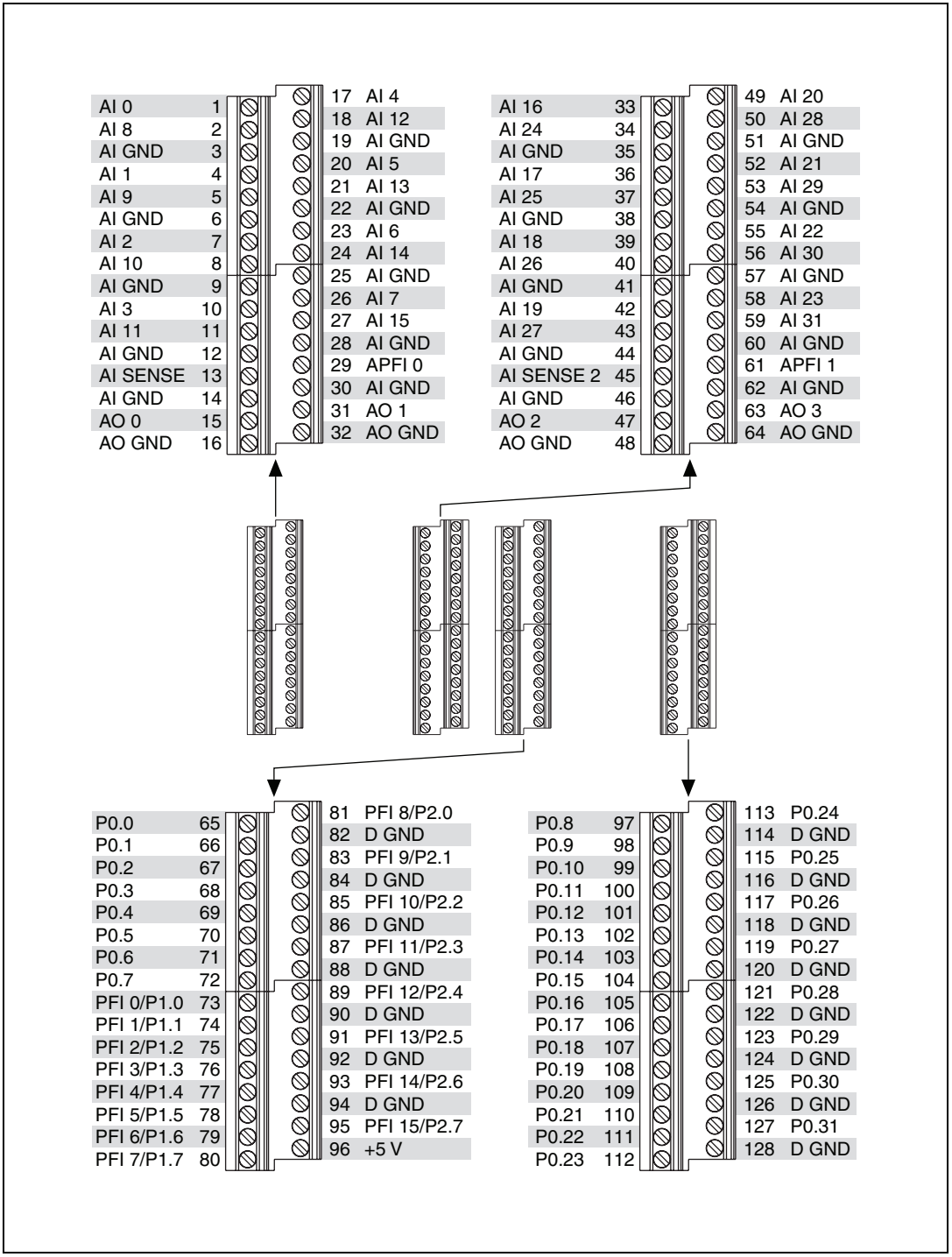


Figure 8. NI USB-6259 Pinout

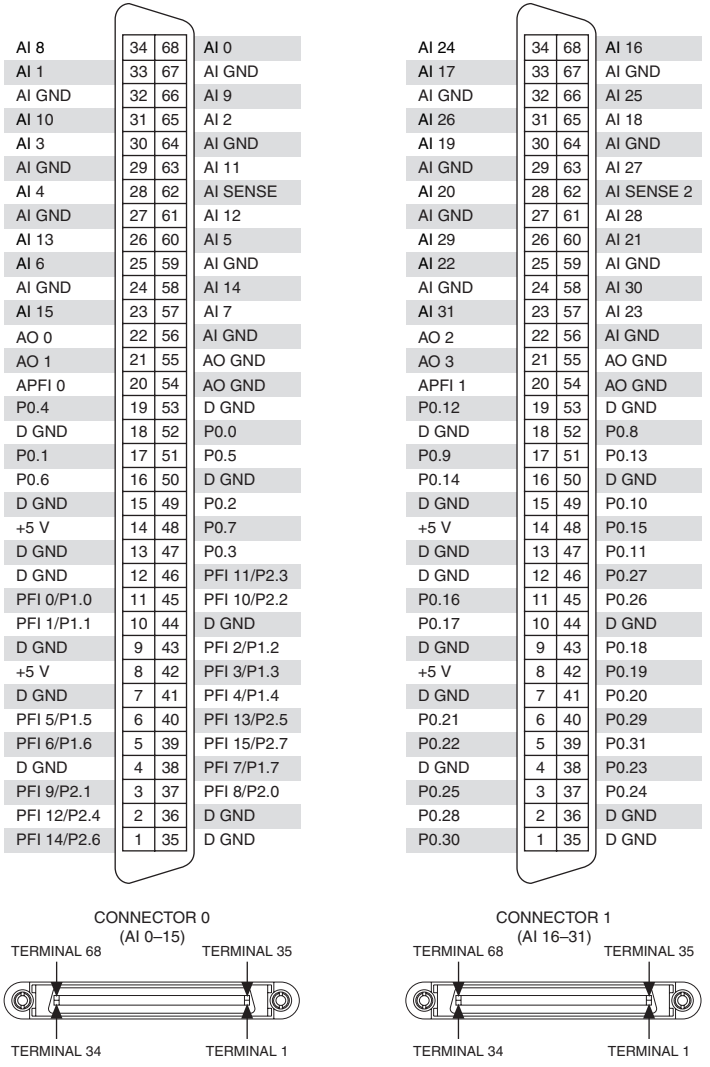


Figure 9. NI USB-6259 Mass Termination Pinout