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USB-6225

DEVICE SPECIFICATIONS

NI 6225

M Series Data Acquisition: 16 Bit, 250 kS/s, 80 AI, 2 AO, 24 DIO

The following specifications are typical at 25 °C, unless otherwise noted. For more information about the NI 6225, refer to the *M Series User Manual* available at ni.com/manuals.

Analog Input

Number of channels	40 differential or 80 single ended
ADC resolution	16 bits
DNL	No missing codes guaranteed
INL	Refer to the <i>AI Absolute Accuracy</i> section
Sample rate	
Single channel maximum	250 kS/s
Multichannel maximum (aggregate)	250 kS/s
Minimum	No minimum
Timing accuracy	50 ppm of sample rate
Timing resolution	50 ns
Input coupling	DC
Input range	±0.2 V, ±1 V, ±5 V, ±10 V
Maximum working voltage for analog inputs (signal + common mode)	±11 V of AI GND
CMRR (DC to 60 Hz)	92 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	-90 dB ¹
Small signal bandwidth (-3 dB)	700 kHz
Input FIFO size	4,095 samples
Scan list memory	4,095 entries
Data transfers	
PCI/PXI	DMA (scatter-gather), interrupts, programmed I/O
USB	USB Signal Stream, programmed I/O
Overvoltage protection for all analog input and sense channels	
Device on	± 25 V for up to two AI pins
Device off	± 15 V for up to two AI pins
Input current during overvoltage condition	± 20 mA maximum/AI pin

Settling Time for Multichannel Measurements

Accuracy, full-scale step, all ranges

± 90 ppm of step (± 6 LSB)	4 μ s convert interval
± 30 ppm of step (± 2 LSB)	5 μ s convert interval
± 15 ppm of step (± 1 LSB)	7 μ s convert interval

¹ Channel AI <0..15> crosstalk to channel AI <64..79> is -71 dB. This applies to channels with 64-channel separation. Example: AI (x) and AI (x + 64).

Typical Performance Graphs

Figure 1. Settling Error versus Time for Different Source Impedances

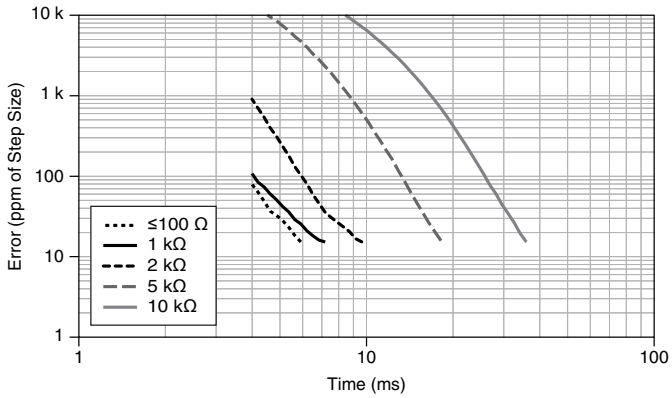


Figure 2. AI Small Signal Bandwidth

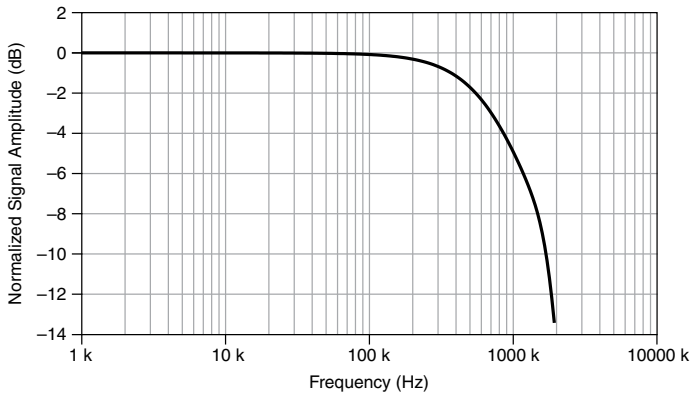
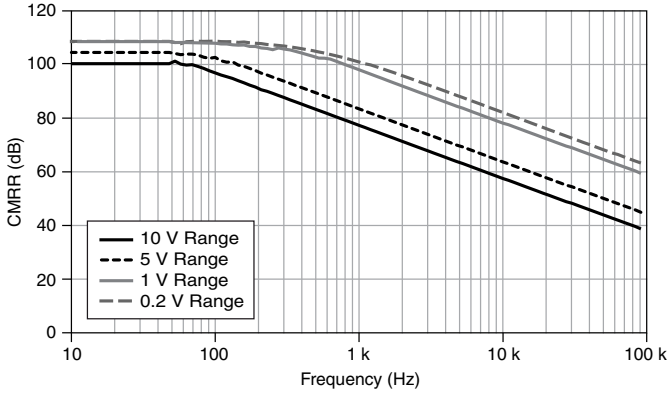


Figure 3. AI CMRR



AI Absolute Accuracy



Note Accuracies listed are valid for up to one year from the device external calibration.

Table 1. AI Absolute Accuracy

Nominal Range Positive Full Scale	Nominal Range Negative Full Scale	Residual Gain Error (ppm of Reading)	Residual Offset Error (ppm of Range)	Offset Tempco (ppm of Range/°C)	Random Noise, σ (μ Vrms)	Absolute Accuracy at Full Scale (μ V)	Sensitivity (μ V)
10	-10	75	20	57	244	3,100	97.6
5	-5	85	20	60	122	1,620	48.8
1	-1	95	25	79	30	360	12.0
0.2	-0.2	135	80	175	13	112	5.2



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

Gain tempco 25 ppm/°C

Reference tempco 5 ppm/°C

INL error 76 ppm of range

AI Absolute Accuracy Equation

$$\text{AbsoluteAccuracy} = \text{Reading} \cdot (\text{GainError}) + \text{Range} \cdot (\text{OffsetError}) + \text{NoiseUncertainty}$$

$$\text{GainError} = \text{ResidualAIGainError} + \text{GainTempco} \cdot (\text{TempChangeFromLastInternalCal}) + \text{ReferenceTempco} \cdot (\text{TempChangeFromLastExternalCal})$$

$$\text{OffsetError} = \text{ResidualAIOffsetError} + \text{OffsetTempco} \cdot (\text{TempChangeFromLastInternalCal}) + \text{INLError}$$

$$\text{NoiseUncertainty} = \frac{\text{Random Noise} \cdot 3}{\sqrt{100}} \text{ for a coverage factor of } 3 \sigma \text{ and averaging } 100 \text{ points.}$$

AI Absolute Accuracy Example

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

- $\text{TempChangeFromLastExternalCal} = 10 \text{ }^\circ\text{C}$
- $\text{TempChangeFromLastInternalCal} = 1 \text{ }^\circ\text{C}$
- $\text{number_of_readings} = 100$
- $\text{CoverageFactor} = 3 \sigma$

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

$$\text{GainError} = 75 \text{ ppm} + 25 \text{ ppm} \cdot 1 + 5 \text{ ppm} \cdot 10 = 150 \text{ ppm}$$

$$\text{OffsetError} = 20 \text{ ppm} + 57 \text{ ppm} \cdot 1 + 76 \text{ ppm} = 153 \text{ ppm}$$

$$\text{NoiseUncertainty} = \frac{244 \text{ } \mu\text{V} \cdot 3}{\sqrt{100}} = 73 \text{ } \mu\text{V}$$

$$\text{AbsoluteAccuracy} = 10 \text{ V} \cdot (\text{GainError}) + 10 \text{ V} \cdot (\text{OffsetError}) + \text{NoiseUncertainty} = 3,100 \text{ } \mu\text{V}$$

Analog Output

Number of channels	2
DAC resolution	16 bits
DNL	± 1 LSB
Monotonicity	16 bit guaranteed
Maximum update rate	
1 channel	833 kS/s
2 channels	740 kS/s per channel
Timing accuracy	50 ppm of sample rate
Timing resolution	50 ns
Output range	$\pm 10 \text{ V}$

Output coupling	DC
Output impedance	0.2 Ω
Output current drive	± 5 mA
Overdrive protection	± 25 V
Overdrive current	10 mA
Power-on state	± 20 mV
Power-off glitch	400 mV for 200 ms
Output FIFO size	8,191 samples shared among channels used
Data transfers	
Data transfers	DMA (scatter-gather), interrupts, programmed I/O
USB	USB Signal Stream, programmed I/O
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)	6 μ s
Slew rate	15 V/ μ s
Glitch energy	
Magnitude	100 mV
Duration	2.6 μ s

AO Absolute Accuracy

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.



Note Accuracies listed are valid for up to one year from the device external calibration.

Table 2. AO Absolute Accuracy

Nominal Range Positive Full Scale	Nominal Range Negative Full Scale	Residual Gain Error (ppm of Reading)	Gain Tempco (ppm/°C)	Residual Offset Error (ppm of Range)	Offset Tempco (ppm of Range/°C)	Absolute Accuracy at Full Scale (µV)
10	-10	90	10	40	5	3,230

Reference tempco 5 ppm/°C

INL error 128 ppm of range

AO Absolute Accuracy Equation

$$AbsoluteAccuracy = OutputValue \cdot (GainError) + Range \cdot (OffsetError)$$

$$GainError = ResidualGainError + GainTempco \cdot (TempChangeFromLastInternalCal) + ReferenceTempco \cdot (TempChangeFromLastExternalCal)$$

$$OffsetError = ResidualOffsetError + AOffsetTempco \cdot (TempChangeFromLastInternalCal) + INLError$$

Digital I/O/PFI

Static Characteristics

Number of channels	24 total, 8 (P0.<0..7>), 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 typical, 20 kΩ minimum
Input voltage protection	±20 V on up to two pins ²

Waveform Characteristics (Port 0 Only)

Terminals used	Port 0 (P0.<0..7>)
Port/sample size	Up to 8 bits
Waveform generation (DO) FIFO	2,047 samples
Waveform acquisition (DI) FIFO	2,047 samples

² Stresses beyond those listed under *Input voltage protection* may cause permanent damage to the device.

DI or DO Sample Clock frequency	0 MHz to 1 MHz, system and bus activity dependent
Data transfers	DMA (scatter-gather), interrupts, programmed I/O
DI or DO Sample Clock source ³	Any PFI, RTSI, AI Sample or Convert Clock, Ctr <i>n</i> 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 μ s, 2.56 ms, disable; high and low transitions; selectable per input

Recommended Operating Conditions

Level	Minimum	Maximum
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..7>	—	-24 mA
Output high current (I_{OH}) PFI <0..15>/P1/P2	—	-16 mA
Output low current (I_{OL}) P0.<0..7>	—	24 mA
Output low current (I_{OL}) PFI <0..15>/P1/P2	—	16 mA

Electrical Characteristics

Level	Minimum	Maximum
Positive-going threshold (V_{T+})	—	2.2 V
Negative-going threshold (V_{T-})	0.8 V	—
Delta VT hysteresis ($V_{T+} - V_{T-}$)	0.2 V	—
I_{IL} input low current ($V_{in} = 0$ V)	—	-10 μ A
I_{IH} input high current ($V_{in} = 5$ V)	—	250 μ A

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.

Digital I/O Characteristics

Figure 4. DIO Port 0: I_{oh} versus V_{oh}

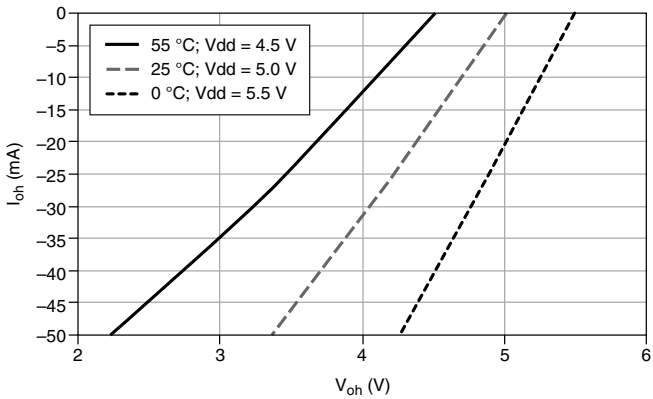


Figure 5. DIO PFI/Port 1/Port 2: I_{oh} versus V_{oh}

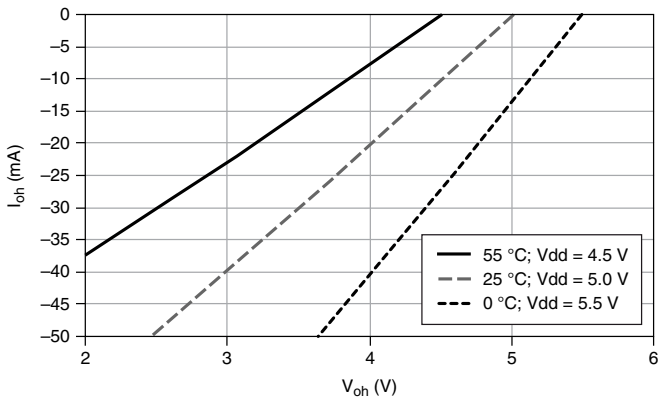


Figure 6. DIO Port 0: I_{ol} versus V_{ol}

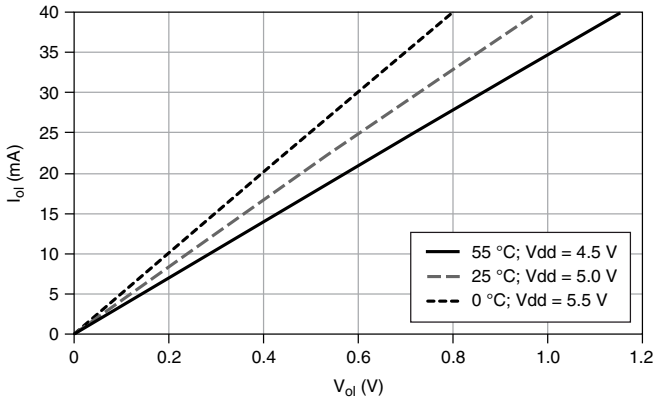
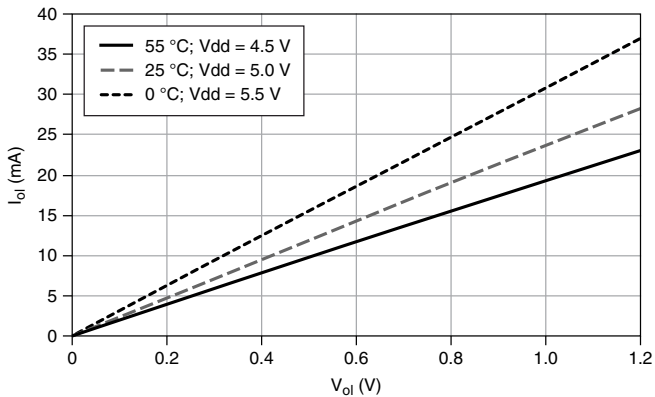


Figure 7. DIO PFI/Port 1/Port 2: I_{ol} versus V_{ol}



General-Purpose Counters/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/PXI	Dedicated scatter-gather DMA controller for each counter/timer; interrupts, programmed I/O
USB	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 output PFI or RTSI terminal.

Phase-Locked Loop (PLL)



Note PCI/PXI devices only.

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 function	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	RTSI <0..7> ⁴
PXI	PXI_TRIG <0..7>, PXI_STAR
USB source	None
Output selections	10 MHz Clock, frequency generator output, many internal signals
Debounce filter settings	125 ns, 6.425 µs, 2.56 ms, disable; high and low transitions; selectable per input

Bus Interface

PCI/PXI	3.3 V or 5 V signal environment
USB	USB 2.0 Hi-Speed or full-speed ^{5, 6}
DMA channels (PCI/PXI)	6, can be used for analog input, analog output, digital input, digital output, counter/timer 0, counter/timer 1
USB Signal Stream	4, can be used for analog input, analog output, counter/timer 0, counter/timer 1

The PXI device can be installed in PXI Express hybrid slots. It cannot be used to control SCXI in PXI/SCXI combo chassis.

⁴ In other sections of this document, RTSI refers to RTSI <0..7> for the PCI devices or PXI_TRIG <0..7> for PXI devices.

⁵ If you are using an USB M Series device in full-speed mode, device performance will be lower and you will not be able to achieve maximum sample/update rates.

⁶ Operating on a full-speed bus may result in lower performance.

Power Requirements

Current draw from bus during no-load condition⁷

+5 V	0.02 A
+3.3 V	0.25 A
+12 V	0.15 A

Current draw from bus during AI and AO overvoltage condition⁷

+5 V	0.02 A
+3.3 V	0.25 A
+12 V	0.25 A



Caution USB devices must be powered with an 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, locking or non-locking power jack with 0.080 in. diameter center pin, 5/16-32 thread for locking collars
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Current Limits



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

PCI

+5 V terminal (connector 0)	1 A maximum ⁸
+5 V terminal (connector 1)	1 A maximum ⁸

PXI

+5 V terminal (connector 0)	1 A maximum ⁸
+5 V terminal (connector 1)	1 A maximum ⁸
P0/PFI/P1/P2 and +5 V terminals combined	2 A maximum

⁷ Does not include P0/PFI/P1/P2 and +5 V terminals.

⁸ Older revisions have a self-resetting fuse that opens when current exceeds this specification. Newer revisions have a traditional fuse that opens when current exceeds this specification. This fuse is not customer-replaceable; if the fuse permanently opens, return the device to NI for repair.

USB

+5 V terminal	1 A maximum ⁸
P0/PFI/P1/P2 and +5 V terminals combined	2 A maximum
Power supply fuse	2 A, 250 V

Physical Characteristics

Dimensions

PCI printed circuit board	10.6 cm × 15.5 cm (4.2 in. × 6.1 in.)
PXI printed circuit board	Standard 3U PXI
USB Screw Terminal enclosure (includes connectors)	26.67 cm × 17.09 cm × 4.45 cm (10.5 in. × 6.73 in. × 1.75 in.)
USB Mass Termination enclosure (includes connectors)	18.8 cm × 17.09 cm × 4.45 cm (7.4 in. × 6.73 in. × 1.75 in.)
USB OEM	Refer to the <i>NI USB-622x/625x/628x OEM User Guide</i>

Weight

PCI	103 g (3.6 oz)
PXI	174 g (6.1 oz)
USB Screw Terminal	1.24 kg (2 lb 11 oz)
USB Mass Termination	907 g (2 lb)
USB OEM	162 g (5.7 oz)

I/O connectors

PCI/PXI	2 68-pin VHDCI
USB Screw Terminal	128 screw terminals
USB Mass Termination	2 68-pin SCSI
USB Screw Terminal/BNC screw terminal wiring	16 to 28 AWG

Calibration

Recommended warm-up time

PCI/PXI	15 minutes
USB	30 minutes

Maximum Working Voltage

Maximum working voltage refers to the signal voltage plus the common-mode voltage.

Channel-to-earth

11 V, Measurement Category I

Measurement Category I is for measurements performed on circuits not directly connected to the electrical distribution system referred to as MAINS voltage. MAINS is a hazardous live electrical supply system that powers equipment. This category is for measurements of voltages from specially protected secondary circuits. Such voltage measurements include signal levels, special equipment, limited-energy parts of equipment, circuits powered by regulated low-voltage sources, and electronics.



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



Note Measurement Categories CAT I and CAT O (Other) are equivalent. These test and measurement circuits are not intended for direct connection to the MAINS building installations of Measurement Categories CAT II, CAT III, or CAT IV.

Environmental

Operating temperature

PCI/PXI

0 °C to 55 °C

USB

0 °C to 45 °C

Storage temperature

-20 °C to 70 °C

Humidity

10% RH to 90% RH, noncondensing

Maximum altitude

2,000 m

Pollution Degree (indoor use only)

2

Indoor use only.

Shock and Vibration (PXI 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 Hz to 500 Hz, 0.3 g _{rms}
Nonoperating	5 Hz 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 electrical equipment safety standards 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 the [Online Product Certification](#) section.

Electromagnetic Compatibility

This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:

- EN 61326-1 (IEC 61326-1): Class A emissions; Basic immunity
- EN 55011 (CISPR 11): Group 1, Class A emissions
- EN 55022 (CISPR 22): Class A emissions
- EN 55024 (CISPR 24): Immunity
- AS/NZS CISPR 11: Group 1, Class A emissions
- AS/NZS CISPR 22: Class A emissions
- FCC 47 CFR Part 15B: Class A emissions
- ICES-001: Class A emissions



Note In the United States (per FCC 47 CFR), Class A equipment is intended for use in commercial, light-industrial, and heavy-industrial locations. In Europe, Canada, Australia and New Zealand (per CISPR 11) Class A equipment is intended for use only in heavy-industrial locations.



Note Group 1 equipment (per CISPR 11) is any industrial, scientific, or medical equipment that does not intentionally generate radio frequency energy for the treatment of material or inspection/analysis purposes.



Note For EMC declarations and certifications, and additional information, refer to the [Online Product Certification](#) section.

CE Compliance

This product meets the essential requirements of applicable European Directives, as follows:

- 2014/35/EU; Low-Voltage Directive (safety)
- 2014/30/EU; Electromagnetic Compatibility Directive (EMC)
- 2011/65/EU; Restriction of Hazardous Substances (RoHS)

Online Product Certification

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and 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.

Environmental Management

NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the *Minimize Our Environmental Impact* web page at ni.com/environment. This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

Waste Electrical and Electronic Equipment (WEEE)



EU Customers At the end of the product life cycle, all NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit ni.com/environment/weee.

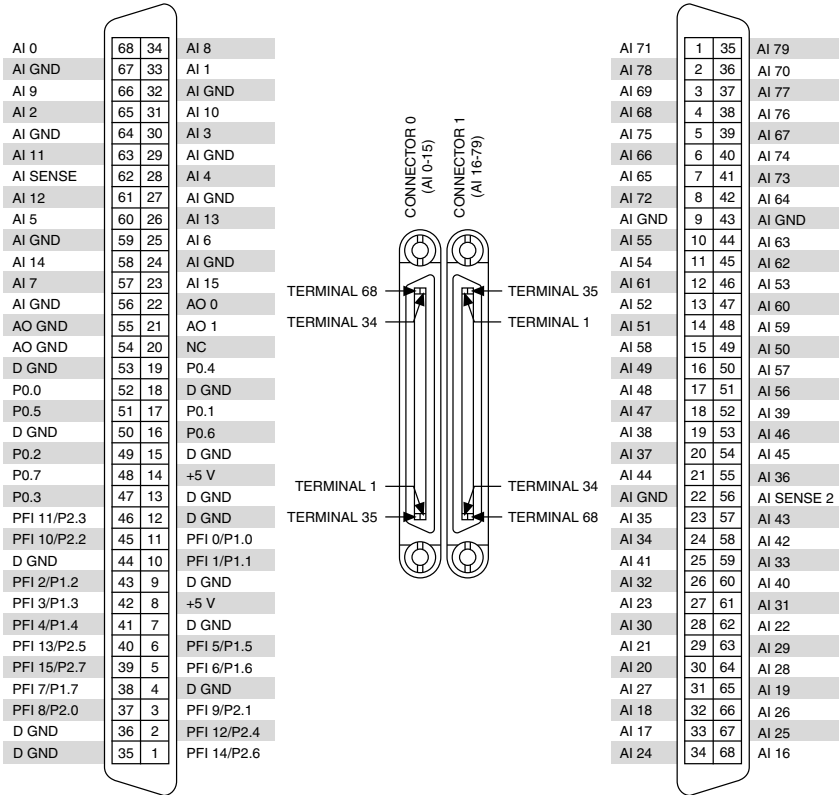
电子信息产品污染控制管理办法（中国 RoHS）



中国客户 National Instruments 符合中国电子信息产品中限制使用某些有害物质指令 (RoHS)。关于 National Instruments 中国 RoHS 合规性信息，请登录 ni.com/environment/rohs_china。(For information about China RoHS compliance, go to ni.com/environment/rohs_china.)

Device Pinouts

Figure 8. NI PCI/PXI-6225 Pinout



NC = No Connect

Figure 9. NI USB-6225 Screw Terminal Pinout

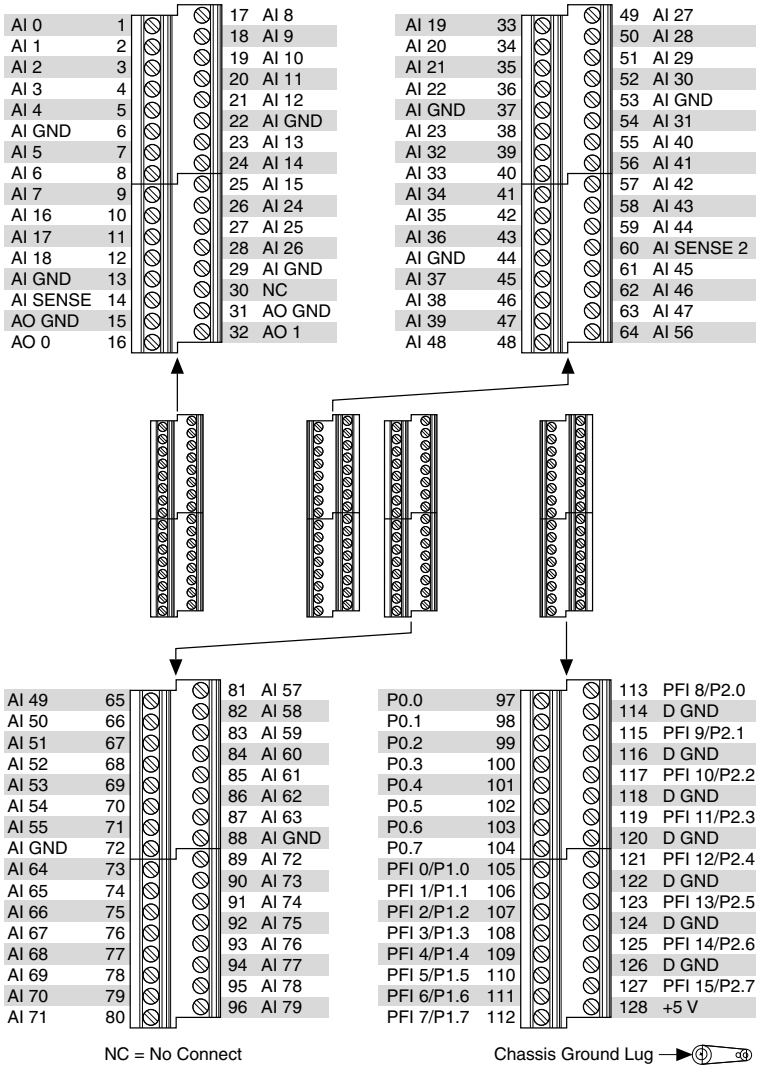


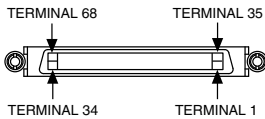
Figure 10. NI USB-6225 Mass Termination Pinout

AI 24	34	68	AI 16
AI 17	33	67	AI 25
AI 18	32	66	AI 26
AI 27	31	65	AI 19
AI 20	30	64	AI 28
AI 21	29	63	AI 29
AI 30	28	62	AI 22
AI 23	27	61	AI 31
AI 32	26	60	AI 40
AI 41	25	59	AI 33
AI 34	24	58	AI 42
AI 35	23	57	AI 43
AI GND	22	56	AI SENSE 2
AI 44	21	55	AI 36
AI 37	20	54	AI 45
AI 38	19	53	AI 46
AI 47	18	52	AI 39
AI 48	17	51	AI 56
AI 49	16	50	AI 57
AI 58	15	49	AI 50
AI 51	14	48	AI 59
AI 52	13	47	AI 60
AI 61	12	46	AI 53
AI 54	11	45	AI 62
AI 55	10	44	AI 63
AI GND	9	43	AI GND
AI 72	8	42	AI 64
AI 65	7	41	AI 73
AI 66	6	40	AI 74
AI 75	5	39	AI 67
AI 68	4	38	AI 76
AI 69	3	37	AI 77
AI 78	2	36	AI 70
AI 71	1	35	AI 79

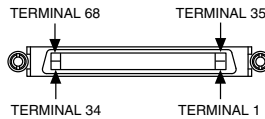
AI 8	34	68	AI 0
AI 1	33	67	AI GND
AI GND	32	66	AI 9
AI 10	31	65	AI 2
AI 3	30	64	AI GND
AI GND	29	63	AI 11
AI 4	28	62	AI SENSE
AI GND	27	61	AI 12
AI 13	26	60	AI 5
AI 6	25	59	AI GND
AI GND	24	58	AI 14
AI 15	23	57	AI 7
AO 0	22	56	AI GND
AO 1	21	55	AO GND
NC	20	54	AO GND
P0.4	19	53	D GND
D GND	18	52	P0.0
P0.1	17	51	P0.5
P0.6	16	50	D GND
D GND	15	49	P0.2
+5 V	14	48	P0.7
D GND	13	47	P0.3
D GND	12	46	PFI 11/P2.3
PFI 0/P1.0	11	45	PFI 10/P2.2
PFI 1/P1.1	10	44	D GND
D GND	9	43	PFI 2/P1.2
+5 V	8	42	PFI 3/P1.3
D GND	7	41	PFI 4/P1.4
PFI 5/P1.5	6	40	PFI 13/P2.5
PFI 6/P1.6	5	39	PFI 15/P2.7
D GND	4	38	PFI 7/P1.7
PFI 9/P2.1	3	37	PFI 8/P2.0
PFI 12/P2.4	2	36	D GND
PFI 14/P2.6	1	35	D GND

NC = No Connect

CONNECTOR 1
(AI 16-79)



CONNECTOR 0
(AI 0-15)



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