

Installation Identity and Scope

NI PCI-6224 is a PCI multifunction data-acquisition device with 32 single-ended analog inputs, 48 bidirectional digital I/O lines and two 32-bit counters/timers. Its maximum aggregate analog-input sample rate is 250 kS/s.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PCI-6224
Manufacturer	NI
Hardware type	PCI Multifunction I/O Device
System family	Industrial automation
Official source	NI part number 779067-01 and PCI-6224 specifications

CONTROLLED ENGINEERING COPY

Use only the complete NI PCI-6224 identity and the current manufacturer documentation. Verify the installed revision, companion hardware, wiring and saved configuration before replacement or release.

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PCI-6224

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete PCI-6224 and 779067-01 identity before installation.
2	Use an approved PCI host and power down the computer before inserting the board.
3	Observe ESD controls when handling the device and VHDCI connectors.
4	Confirm the selected analog input range before applying a signal.
5	Do not use the device for Measurement Categories II, III or IV.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	PCI-6224
Physical interface	Exact NI PCI-6224 nameplate and installed revision
Companion check	Documented PCI Multifunction I/O Device system position and companion hardware
Configuration	Labeled field, power, communication and grounding connections
Functional proof	Saved configuration plus a controlled functional-test record

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 130539-17	View Bently Nevada 130539-17
Bently Nevada 130539-20	View Bently Nevada 130539-20
Bently Nevada 130539-30	View Bently Nevada 130539-30
Bently Nevada 130539-34	View Bently Nevada 130539-34
Bently Nevada 130539-35	View Bently Nevada 130539-35

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record NI PCI-6224 and the installed revision exactly.
NI part number	Verify the documented value: 779067-01.
Bus	Verify the documented value: PCI.
Connections	Label every installed interface, common, shield and protective-ground connection.
Configuration	Back up and restore the model-specific settings, mappings and approved limits.
Functional proof	Test the complete PCI Multifunction I/O Device function under a controlled maintenance state.

CONFIGURATION BOUNDARY

Use only the complete NI PCI-6224 identity and the current manufacturer documentation. Verify the installed revision, companion hardware, wiring and saved configuration before replacement or release.

Expected Technical Values

PARAMETER	VALUE
NI part number	779067-01
Bus	PCI
Analog inputs	32 single-ended
Analog input resolution	16 bit

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 130539-45	View Bently Nevada 130539-45
Bently Nevada 130539-50	View Bently Nevada 130539-50

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	The complete PCI-6224 marking and revision agree with the engineering record.
Compatibility	System position, companion hardware and interfaces match the manufacturer documentation.
Configuration	Saved values, channel mappings and protection limits are restored without unexplained change.
Functional proof	Diagnostics and the model-specific controlled test pass without unexplained fault.

Model-Specific Questions

QUESTION	ENGINEERING ANSWER
What is NI PCI-6224?	It is a PCI multifunction I/O device with 32 single-ended analog inputs, 48 bidirectional digital lines and two counters/timers.
What is the maximum NI PCI-6224 analog-input sample rate?	The official NI product record specifies a maximum sample rate of 250 kS/s.
Which analog ranges are available on NI PCI-6224?	The published ranges include ± 0.2 V, ± 1 V, ± 5 V and ± 10 V.
How does NI PCI-6224 connect to external signals?	It uses two VHDCI front connectors with approved NI cables or terminal accessories.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 130539-72	View Bently Nevada 130539-72
Bently Nevada 130539-99	View Bently Nevada 130539-99
Epro MMS6831	View Epro MMS6831
Epro PR6423-002-000-CON021	View Epro PR6423-002-000-CON021
Epro PR6423-002-001-CN-CON041	View Epro PR6423-002-001-CN-CON041

FAQ, Source and Controlled Release

QUESTION	ENGINEERING ANSWER
Which driver configures NI PCI-6224?	NI-DAQmx provides the supported configuration, self-test and measurement interface.
Can NI PCI-6224 be used for Measurement Categories II, III or IV?	No. The NI 622x specification limits the device to Measurement Category I use.
What confirms successful commissioning of NI PCI-6224?	A passed NI-DAQmx self-test and controlled analog, digital and counter verification confirm the device.

MANUFACTURER SOURCE RECORDS

NI PCI-6224 Official Product Page - NI part number 779067-01 and PCI-6224 specifications
NI 622x Specifications - PCI/PXI-6224/6225/6229 specification tables

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PCI-6224 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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