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8-Slot PXI Express Chassis for PXI and PXI Express Modules

NI PXIe-1082



- Accepts 3U PXI, PXI Express, CompactPCI, and CompactPCI Express modules
- 1 PXI Express system slot
- 7 peripheral slots: 7 PXI Express compatible, 4 PXI compatible and 1 PXI Express system timing compatible
- Up to 1 GB/s per-slot dedicated bandwidth (x4 PCI Express), 4 GB/s total system bandwidth
- Low-jitter internal 10 MHz reference clock for PXI slots with 25 ppm stability
- Low-jitter internal 100 MHz reference clock for PXI Express slots with 25 ppm stability
- Variable speed fan controller optimizes cooling and acoustic emissions
- Quiet operation for 0 to 30 °C at 43.6 dBA
- Remote power-inhibit control

Overview

The NI PXIe-1082 eight-slot chassis features a high-bandwidth backplane with PXI Express capability in every slot to meet a wide variety of high-performance test and measurement and control application needs. It is ideal for high-speed measurements, data streaming, and high-channel-density system solutions. Its compact form factor and optional portable LCD monitor and keyboard accessory make the NI PXIe-1082 ideal for portable applications. The chassis provides the full power of 507 W across the entire 0 to 55 °C extended temperature range, a feature National Instruments offers on all NI high-performance chassis. The NI PXIe-1082 is compa tible with both PXI Express and CompactPCI Express modules. In addition, this chassis features four hybrid slots, which provide the added compatibility with standard PXI and CompactPCI modules. The chassis also incorporates all of the timing and synchronization features defined by the latest PXI specification, including a built-in 10 MHz reference clock, PXI trigger bus, and PXI star trigger as well as a built-in 100 MHz reference clock, SYNC 100, andPXI differential star triggers for PXI Express modules.

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Application and Technology

High Reliability

- 0 to 55 °C extended temperature range
- 507 W from 0 to 55 °C without derating
- NI PXI System Monitor API for power supply, temperature, and fan monitoring
- HALT-tested for increased reliability
- Field-replaceable power supply shuttle

Multichassis Synchronization

- Numerous synchronization options: CLK10 sharing, GPS, IEEE 1588, IRIG-B, and so on
- PXI Express system timing slot for tight synchronization across chassis
- Switchless CLK10 routing

Optional Features

- Portable LCD monitor and keyboard accessory
- Front and rear rack-mount kits
- System assurance program

Slot	PXI Express System	PXI Express Peripheral	Hybrid (PXI)
Bus Signaling	PCI Express (4 x4 links) and PCI (32/33)	PCI Express (x4)	PCI (32/33) and PCI Express (x4)
Bandwidth	4 GB/s dedicated for PXI Express 132 MB/s shared for PXI	Up to 1 GB/s dedicated[1]	132 MB/s shared (PXI) or up to 1 GB/s dedicated[1] (PXI Express)
Number of Slots	1	3[2]	4

[1] Each slot can have up to 1 GB/s dedicated bandwidth; however, if more than one slot connected to the same switch is used, 1 GB/s is shared among those slots.

[2] Includes one system timing slot.

Slot Types Accept PXI and PXI Express Modules

This chassis enables higher-bandwidth systems and provides the flexibility you need to work with both PXI and PXI Express modules. There are a total of nine PXI Express slots and eight PXI hybrid-compatible slots.

The PXI Express system slot offers four x4 PCI Express links (1 GB/s single direction per link): one x4 link is connected directly to slot 2 and the other three x4 links are connected to three switches. Each switch provides a x4 PCI Express link to two peripheral slots. Each slot is capable of 1 GB/s per-direction dedicated bandwidth; however, if you use another slot connected to the same switch, the slots share the 1 GB/s total bandwidth to the switch. The total system bandwidth is also dependent on the PXI Express controller selected.

There is one x1 PCI Express link to a PCI Express-to-PCI translation bridge on the backplane. The four PXI Express hybrid slots deliver connectivity to either a x4 PCI Express link or to the 32-bit, 33 MHz PCI bus on the backplane. The PXI Express system timing slot accepts a PXI Express module or a PXI Express system timing controller for advanced timing and synchronization.

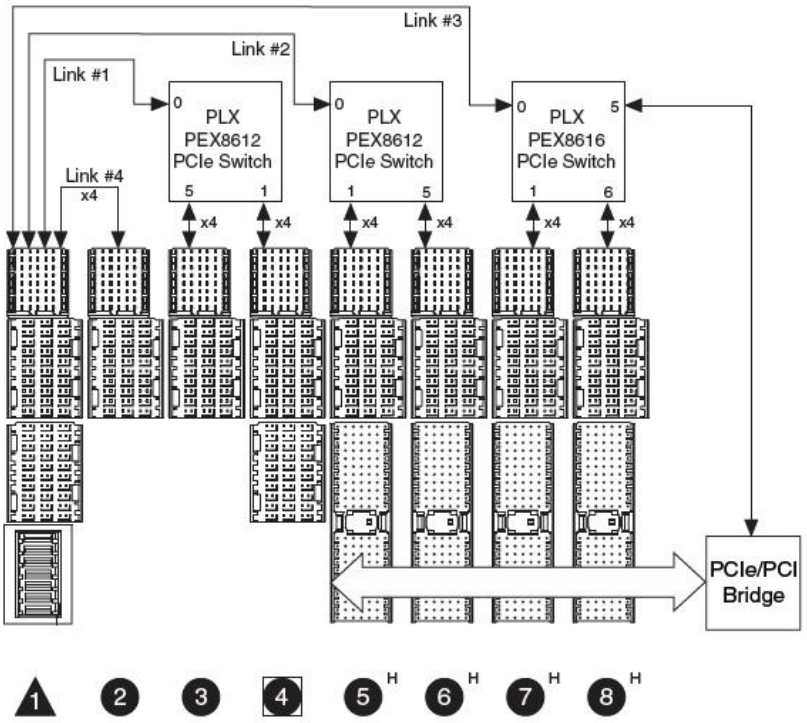


Figure 1. NI PXIe-1082 Chassis Backplane

Optimized Cooling and Acoustic Emissions

The NI PXIe-1082 chassis integrates two pulse-width modulation (PWM) system fans to provide filtered, forced-air cooling that exceeds the cooling demands of PXI Express and CompactPCI Express as well as PXI and CompactPCI modules. The NI PXIe-1082 offers a HIGH fan setting to maximize cooling and an AUTO fan setting to minimize acoustic emissions when operating the chassis in ambient environments less than 55 °C. The chassis monitors air intake temperature and adjusts fan speed accordingly while the AUTO setting is selected. With this technology, the NI PXIe-1082 achieves acoustic noise levels as low as 43.6 dBA (sound pressure level measured at operator position according to ISO 7779).

PXI Timing and Synchronization

For PXI modules, the NI PXIe-1082 backplane is fully compliant with PXI timing and synchronization standards. The chassis includes a 10 MHz reference clock with an accuracy of ±25 parts per million (ppm), less than 5 ps jitter, and a maximum slot-to-slot skew of 300 ps. For triggering and handshaking needs, the NI PXIe-1082 offers the PXI trigger bus and PXI star trigger.

For PXI Express modules, in addition to PXI timing and synchronization features, the NI PXIe-1082 backplane offers a differential 100 MHz reference clock with an accuracy of ±25 ppm, less than 3 ps jitter, and a maximum slot-to-slot skew of 100 ps. The chassis also provides a differential star trigger to the PXI Express slots to deliver less than 200 ps intermodule skew. With the SYNC 100, a peripheral module installed in the NI PXIe-1082 can generate its own CLK10 signal, deriving it from the 100 MHz reference clock.

Software System Configuration

The NI PXIe-1082 chassis is configured with NI Measurement & Automation Explorer (MAX). With this software configuration tool, you can easily configure NI PXIe-1065 systems without time-consuming manual installation of initialization files. MAX creates the pxisys.ini file that defines the layout and parameters of your PXI system including chassis, controller, and plug-in modules.

Replaceable Power Supply Shuttle

This chassis include a removable high-performance universal AC power supply with built-in overcurrent protection. An isolated 12 VDC line provides power to the cooling fans, significantly reducing electrical noise on the chassis backplane. The NI PXIe-1082 incorporates the power supply and fans into a single modular unit that you can replace quickly, resulting in a mean time to repair (MTTR) of less than five minutes.

External 10 MHz Reference Clock I/O Connectors

An NI PXIe-1082 chassis includes IN/OUT BNC connectors for the 10 MHz reference clock on the rear of the chassis. When the backplane detects a 10 MHz signal on the IN connector, it phase locks to the external clock. The OUT connector provides a buffered, non-TTL version of the 10 MHz reference clock.

The 10 MHz clock may also be driven by an optional system timing controller populated in slot 4. These system timing controllers provide a higher-stability clock source such as an oven controlled crystal oscillator (OCXO) and the ability to drive the PXI star and PXI Express differential star triggers as well as import or export the various trigger lines on the backplane.

Remote Power Inhibit and Monitoring

The NI PXIe-1082 chassis features remote power inhibit and voltage monitoring through a DB-9 connector on the rear of the chassis. Use this connector to switch off power or monitor the power remotely in the chassis.

Power Supply, Temperature, and Fan Monitoring

This chassis continuously monitors power supply voltages, air intake temperature, and fan speeds to ensure safe system operation in the event of an unexpected system event. It provides feedback to the user via a bicolor LED in the power switch on the front of the chassis, and the chassis makes necessary adjustments to continue operation such as increase fan speeds if the temperature rises. You can also monitor the status of the NI PXIe-1082 with the included NI PXI System Monitor API.

NI PXIe-1082 Accessories

The NI PXIe-1082 has several optional accessories for complete system integration and optimized chassis functionality. An optional, attachable, and portable LCD monitor and keyboard accessory and a rugged portable carrying case provide effective portable solutions. Front and rear rack-mount kits are available for 19 in. rack-mounted systems. You can easily replace spare power supplies with little system downtime because of the modular nature of the NI PXIe-1082 power supply and fan shuttle. You can use slot blockers to improve the overall cooling performance of the chassis.

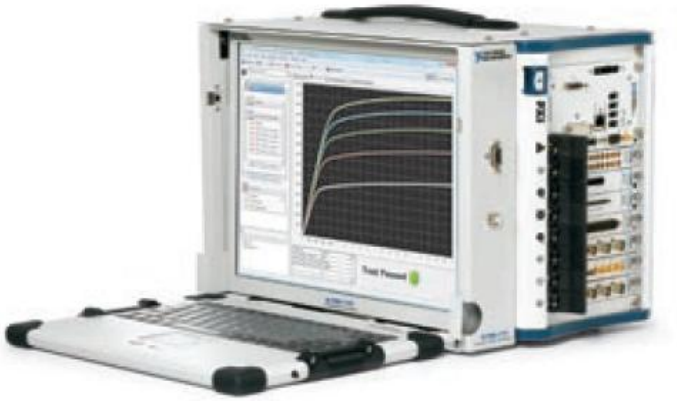


Figure 2. NI PMA-1115 Portable Touch Screen LCD Monitor, Keyboard and Touchpad Accessory Attached to National Instruments Eight-Slot Chassis



Figure 3. NI PXI Carrying Case Accessory

PXI System Assurance Program

With an NI system assurance program, you receive complete system-level assembly and functional testing of the PXI chassis, controller, and all peripheral devices, as well as installation of all device drivers and software programs (such as NI LabVIEW). For online configuration of a complete PXI system, including information about NI system assurance programs, visit the PXI Advisor at ni.com/pxiadvisor.

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Ordering Information

For a complete list of accessories, visit the product page on ni.com.

Products	Part Number	Recommended Accessories	Part Number
Related Accessories			
NI PMA-1115: Portable PXI Monitor and English Keyboard Accessory	780215-01	No accessories required.	
NI PXI Slot Blocker, Set of 5	199198-01	No accessories required.	
NI PXI Carrying Case	780398-01	No accessories required.	
PXI Chassis Filler Panel Kit, 3 Double- & 3 Single-Slot Panels	778679-01	No accessories required.	
NI PXI 8-Slot Front Rack Mount Kit	778643-01	No accessories required.	
NI PXI 8-Slot Rear Rack Mount Kit	778643-02	No accessories required.	

PXI EMC Filler Panel Kit	778700-01	No accessories required.	
Replacement Power Supply and Fan Shuttle for NI PXIe-1082	780322-01	No accessories required.	
PXIe-1082			
PXIe-1082, 8-Slot 3U PXI Express Chassis Requires: 1 Cable	780321-01	**Cable:** Shielded - Power Cord, AC, U.S., 120 VAC, 2.3 meters	763000-01
		Cable: Shielded - Power Cord, 240V, 10A, North American	763068-01

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Support and Services

System Assurance Programs

NI system assurance programs are designed to make it even easier for you to own an NI system. These programs include configuration and deployment services for your NI PXI, CompactRIO, or Compact FieldPoint system. The NI Basic System Assurance Program provides a simple integration test and ensures that your system is delivered completely assembled in one box. When you configure your system with the NI Standard System Assurance Program, you can select from available NI system driver sets and application development environments to create customized, reorderable software configurations. Your system arrives fully assembled and tested in one box with your software preinstalled. When you order your system with the standard program, you also receive system-specific documentation including a bill of materials, an integration test report, a recommended maintenance plan, and frequently asked question documents. Finally, the standard program reduces the total cost of owning an NI system by providing three years of warranty coverage and calibration service. Use the online product advisors at ni.com/advisor to find a system assurance program to meet your needs.

Technical Support

Get answers to your technical questions using the following National Instruments resources.

- **Support** - Visit ni.com/support to access the NI KnowledgeBase, example programs, and tutorials or to contact our applications engineers who are located in NI sales offices around the world and speak the local language.
- **Discussion Forums** - Visit forums.ni.com for a diverse set of discussion boards on topics you care about.
- **Online Community** - Visit community.ni.com to find, contribute, or collaborate on customer-contributed technical content with users like you.

Repair

While you may never need your hardware repaired, NI understands that unexpected events may lead to necessary repairs. NI offers repair services performed by highly trained technicians who quickly return your device with the guarantee that it will perform to factory specifications. For more information, visit ni.com/repair.

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The NI training and certification program delivers the fastest, most certain route to increased proficiency and productivity using NI software and hardware. Training builds the skills to more efficiently develop robust, maintainable applications, while certification validates your knowledge and ability.

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- **Course kits** - lowest-cost, self-paced training that you can use as reference guides.
- **Training memberships** and training credits - to buy now and schedule training later.

Visit ni.com/training for more information.

Extended Warranty

NI offers options for extending the standard product warranty to meet the life-cycle requirements of your project. In addition, because NI understands that your requirements may change, the extended warranty is flexible in length and easily renewed. For more information, visit ni.com/warranty.

OEM

NI offers design-in consulting and product integration assistance if you need NI products for OEM applications. For information about special pricing and services for OEM customers, visit ni.com/oem.

Alliance

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Detailed Specifications

This appendix contains specifications for the NI PXIe-1082 chassis.

Caution Specifications are subject to change without notice.

Electrical	
AC Input	
Input voltage rating	100 to 240 VAC

Operating voltage range [1]	90 to 264 VAC
Input frequency	50/60 Hz
Operating frequency range	47 to 63 Hz
Input current rating	8-4A
Over-current protection	10 A circuit breaker
Line regulation	
3.3 V	<±0.2%
5 V	<±0.1%
±12 V	<±0.1%
Efficiency	70% typical
Power disconnect	The AC power cable provides main power disconnect. The front-panel power switch causes the internal chassis power supply to provide DC power to the CompactPCI/PXI Express backplane. You also can use the rear-panel D-SUB 9-pin connector and power mode switch to control the internal chassis power supply.

DC Output

DC current capacity (I_{MP})	
Voltage	**Maximum Current**
+3.3 V	32 A
+5 V	27 A
+12 V	32 A
–12 V	2.0 A
5 V_{AUX}	2.0 A

Note Maximum total usable power is 420W.

Backplane pin current capacity						
Slot	**+5 V**	**V (I/O)**	**+3.3 V**	**+12 V**	**–12 V**	**5 V_{AUX}**
System Controller Slot	15 A	-	15 A	30 A	-	1 A
System Timing Slot	-	-	6 A	4 A	-	1 A
Hybrid Peripheral Slot with PXI-1 Peripheral	6 A	5 A	6 A	1 A	1 A	-
Hybrid Peripheral Slot with PXI-5 Peripheral	-	-	6 A	4 A	-	1 A

Notes Total system slot current should not exceed 45 A.
PCI V(I/O) pins in hybrid slots are connected to +5 V.
The maximum power dissipated in the system slot should not exceed 140 W.
The maximum power dissipated in a peripheral slot should not exceed 38.25 W.

Load regulation	
Voltage	**Load Regulation**
+3.3 V	<5%
+12 V	<5%
+5 V	<5%
–12 V	<5%

Maximum ripple and noise (20 MHz bandwidth)	
Voltage	**Maximum Ripple and Noise**
+3.3 V	50 mV_{pp}
+12 V	50 mV_{pp}
+5 V	50 mV_{pp}
–12 V	50 mV_{pp}

Over-current protection	All outputs protected from short circuit and overload with automatic recovery
Over-voltage protection	
3.3 V and 5 V	Clamped at 20 to 30% above nominal output voltage
Power supply shuttle MTTR	Replacement in under 5 minutes

Chassis Cooling

Module cooling system	Forced air circulation (positive pressurization) through three 165 cfm fans with High/Auto speed selector
Slot airflow direction	Bottom of module to top of module
Module cooling intake	Bottom rear of chassis
Module cooling exhaust	Along both sides and top of chassis
Power supply cooling system	Forced air circulation through two integrated fans
Power supply cooling intake	Right side of chassis
Power supply cooling exhaust	Left side of chassis

Environmental

Maximum altitude	2,000 m (800 mbar) (at 25 °C ambient)
Pollution Degree	2
For indoor use only.	
Operating Environment	
Ambient temperature range	0 to 55 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 low temperature limit and MIL-PRF-28800F Class 2 high temperature limit.)
Relative humidity range	10 to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)
Storage Environment	
Ambient temperature range	–40 to 71 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 limits.)
Relative humidity range	5 to 95%, noncondensing (Tested in accordance with IEC-60068-2-56.)

Shock and Vibration

Operational shock	30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC-60068-2-27. Meets MIL-PRF-28800F Class 2 limits.)
Random Vibration	5 to 500 Hz, 0.3 g_{rms}

Acoustic Emissions

Sound Pressure Level (at Operator Position)	
(Tested in accordance with ISO 7779. Meets MIL-PRF-28800F requirements.)	
Auto fan (up to ~30 °C ambient)	43.6 dBA
High fan	62 dBA
Sound Power	
Auto fan (up to ~30 °C ambient)	52.8 dBA
High fan	72 dBA

Note Specifications are subject to change without notice.

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 the *Online Product Certification* section.

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
- AS/NZS CISPR 11: Group 1, Class A emissions
- FCC 47 CFR Part 15B: Class A emissions
- ICES-001: Class A emissions

Note For EMC compliance, operate this device with shielded cables.

Note For the standards applied to assess the EMC of this product, refer to the Online Product Certification section.

CE Compliance CE

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

- 2006/95/EC; Low-Voltage Directive (safety)
- 2004/108/EC; Electromagnetic Compatibility Directive (EMC)

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 module number or product line, and click the appropriate link in the Certification column.

Environmental Management

National Instruments is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial not only to the environment but also to NI customers.

For additional environmental information, refer to the *NI and the Environment* 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 products *must* be sent to a WEEE recycling center. For more information about WEEE recycling centers, National Instruments WEEE initiatives, and compliance with WEEE Directive 2002/96/EC on Waste Electrical and Electronic Equipment, visit ni.com/environment/weee.htm.

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(For information about China RoHS compliance, go to ni.com/environment/rohs_china.)

Backplane

Size	3U-sized; one system slot (with three system expansion slots) and 17 peripheral slots. Compliant with IEEE 1101.10 mechanical packaging. PXI Express Specification compliant. Accepts both PXI Express and CompactPCI (PICMG 2.0 R 3.0) 3U modules.
Backplane bare-board material	UL 94 V-0 Recognized
Backplane connectors	Conforms to IEC 917 and IEC 1076-4-101, and are UL 94 V-0 rated

System Synchronization Clocks (PXI_CLK10, PXIe_CLK100, PXIe_SYNC100)

10 MHz System Reference Clock: PXI_CLK10

Maximum slot-to-slot skew	500 ps
Accuracy	±25 ppm max. (guaranteed over the operating temperature range)

Note The 10 MHz system reference clock does not require calibration.

Maximum jitter	5 ps RMS phase-jitter (10 Hz–1 MHz range)
Duty-factor	45%–55%
Unloaded signal swing	3.3 V ±0.3 V

Note For other specifications refer to the *PXI-1 Hardware Specification*.

100 MHz System Reference Clock: PXIe_CLK100 and PXIe_SYNC100

Maximum slot-to-slot skew	100 ps

Accuracy	±25 ppm max. (guaranteed over the operating temperature range)
Maximum jitter	3 ps RMS phase-jitter (10 Hz–12 kHz range)
	2 ps RMS phase-jitter (12 kHz–20 MHz range)
Duty-factor for PXIe_CLK100	45%–55%
Absolute single-ended voltage swing (When each line in the differential pair has 50 W termination to 1.30 V or Thévenin equivalent)	400–1000 mV

Note For other specifications refer to the *PXI-5 PXI Express Hardware Specification*.

External 10 MHz Reference Out (BNC on rear panel of chassis)	
Accuracy	±25 ppm max. (guaranteed over the operating temperature range)
Maximum jitter	5 ps RMS phase-jitter (10 Hz–1 MHz range)
Output amplitude	1 V_{PP} ±20% square-wave into 50 Ω
	2 V_{PP} unloaded
Output impedance	50 Ω ±5 Ω
External Clock Source	
Frequency	10 MHz ±100 PPM
Input amplitude	
Rear panel BNC	200 mV_{PP} to 5 V_{PP} square-wave or sine-wave
System timing slot PXI_CLK10_IN	5 V or 3.3 V TTL signal
Rear panel BNC input impedance	50 Ω ±5 Ω
Maximum jitter introduced by backplane	1 ps RMS phase-jitter (10 Hz–1 MHz range)
PXIe_SYNC_CTRL	
V_{IH}	2.0–5.5 V
V_{IL}	0–0.8 V
PXI Star Trigger	
Maximum slot-to-slot skew	250 ps
Backplane characteristic impedance	65 Ω ±10%

Note For PXI slot to PXI Star mapping refer to the *System Timing Slot* section of the *NI PXIe-1082 User Manual*.
For other specifications refer to the *PXI-1 Hardware Specification*.

PXI Differential Star Triggers (PXIe-DSTARA, PXIe-DSTARB, PXIe-DSTARC)	
Maximum slot-to-slot skew	150 ps
Maximum differential skew	25 ps
Backplane differential impedance	100 Ω ±10%

Note For PXIe slot to PXI_DSTAR mapping refer to the *System Timing Slot* section of the *NI PXIe-1082 User Manual*.
For other specifications, the NI PXIe-1082 complies with the *PXI-5 PXI Express Hardware Specification*.

Mechanical

Overall dimensions	
Standard chassis	
Height	6.97 in. (177.1 mm)
Width	10.68 in. (271.4 mm)
Depth	18.40 in. (396.5 mm)

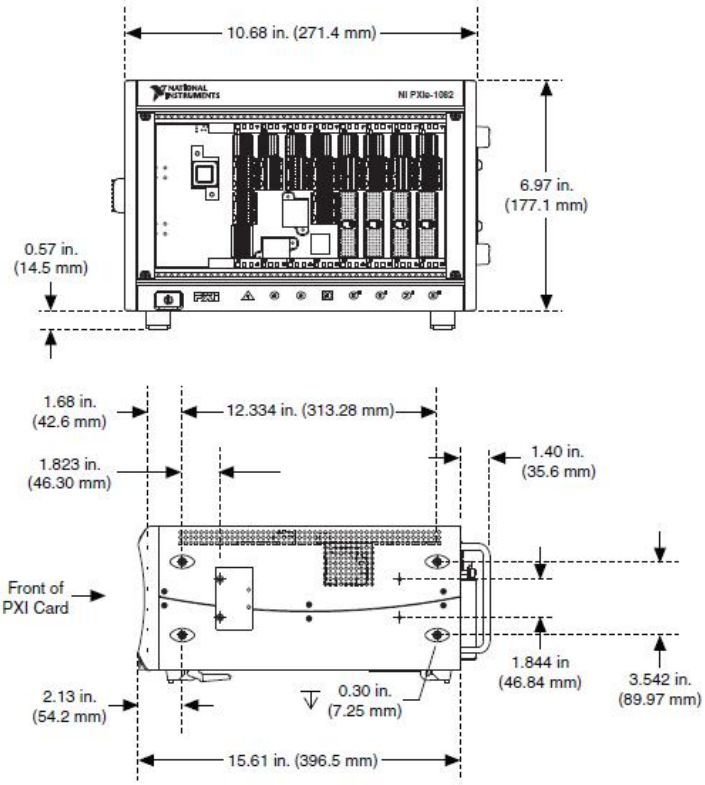
Note 0.57 in. (14.5 mm) is added to height when feet are installed. When tilted with front feet extended on table top, height is increased approximately 2.08 in. (52.8 mm) in front and 0.583 in. (14.8 mm) in rear.

Weight	8.8 kg (19.4 lb)

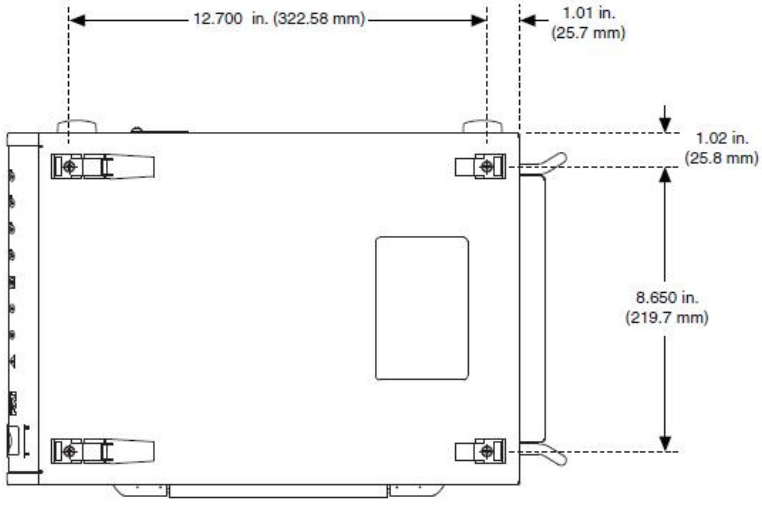
Chassis materials	Sheet Aluminum (5052-H32, 3003-H14, and 6061-T6), Extruded Aluminum (6060-T6), and Cold Rolled Steel, PC-ABS, Santoprene, Nylon
Finish	Conductive Clear Iridite on Aluminum, Electroplated Nickel on Cold Rolled Steel, Polyurethane Enamel

The following two figures show the NI PXIe-1082 chassis dimensions. The holes shown are for the installation of the optional rack mount kits. You can install those kits on the front or rear of the chassis, depending on which end of the chassis you want to face toward the front of the instrument cabinet. Notice that the front and rear chassis mounting holes (size M4) are symmetrical.

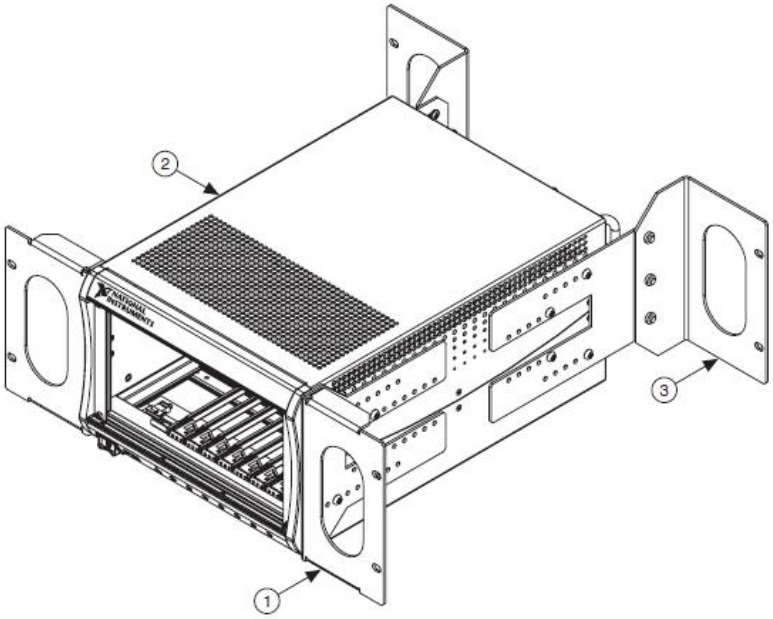
NI PXIe-1082 Chassis Dimensions (Front and Side)



NI PXIe-1082 Chassis Dimensions (Bottom)



NI Chassis Rack Mount Kit Components



1 Front Rack Mount Kit	2 NI Chassis	3 Optional Rear Rack Mount Kit

Note The chassis shown in the previous figure is representative of the NI PXI-1044/1045 and NI PXIe-1082 product line. For more information on rack mounting the NI PXIe-1082 chassis, refer to the printed installation guide included with your rack mount kit.

[1] The operating range is guaranteed by design.

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