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# PXle-8822/42/62 Specifications

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# Contents

PXIe-8822/42/62 Specifications..... 3

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Note Specifications are subject to change without notice.



Caution Using the PXIe-8822/42/62 controller in a manner not described in this user manual can impair the protection the controller provides.

## Features

Model	PXIe-8822	PXIe-8842	PXIe-8862	PXIe-8862 Removable Drive
CPU	Intel® Core™ i3-11100HE	Intel® Core™ i5-11500HE	Intel® Core™ i7-11850HE	
Cache	8 MB Smart Cache	12 MB Smart Cache	24 MB Smart Cache	
Memory	8 GB standard (16 GB maximum), single channel DD4-3200 MHz, non-ECC SODIMM		2 x 8 GB standard (2 x 16 GB maximum), dual channel DD4-3200 MHz, non-ECC SODIMM	
Storage	512 GB (or greater) M.2, NVMe SSD		512 GB (or greater) M.2, NVMe SSD	960 GB U.2, NVMe SSD
Video	1 DisplayPort 1.4	1 DisplayPort 1.4	2 DisplayPort 1.4	
Ethernet	1 i225 port, 1588, 10M/100M/1000M/2.5G Base-T	2 i225 port, 1588, 10M/100M/1000M/2.5G Base-T	2 i225 port, 1588, 10M/100M/1000M/2.5G Base-T	
PCI Express Link Speed	2.5 GT/s	5.0 GT/s	8.0 GT/s	
PXI Express 4 Link Configuration	x4, x4, x4, x4			
PXI Express 2 Link Configuration	x8, x8			

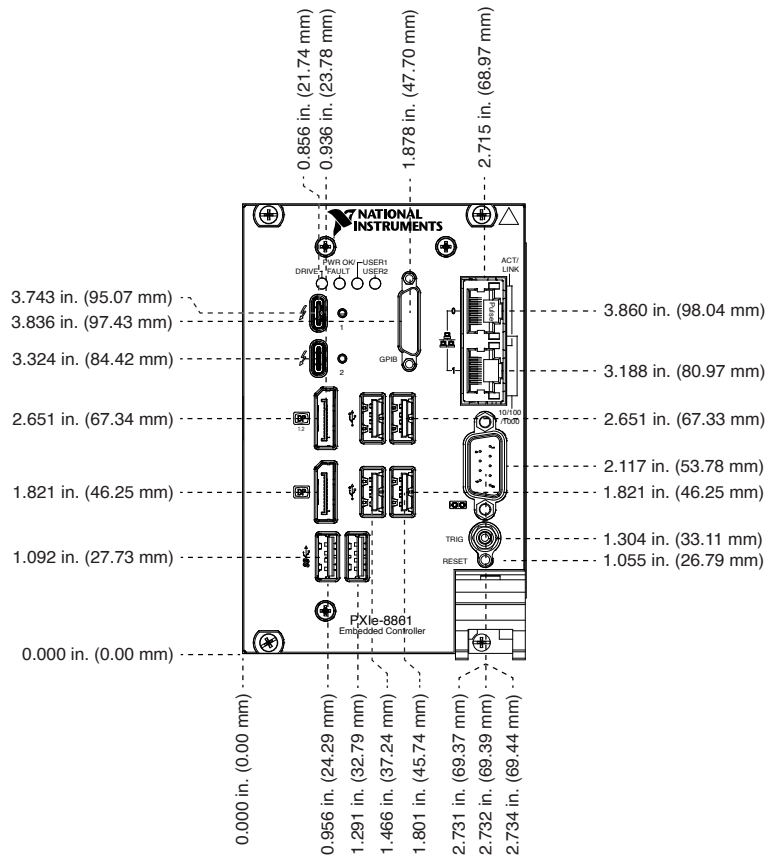
Model	PXIe-8822	PXIe-8842	PXIe-8862	PXIe-8862 Removable Drive
GPIB (IEEE 488 Controller)	N/A	1 mini-GPIB	1 mini-GPIB	
Serial Port (RS-232)	1 DB-9			
Thunderbolt 4 Ports	N/A	1 Type-C	2 Type-C	
Hi-Speed USB (2.0) Ports	2 Type-A	4 Type-A	4 Type-A	
SuperSpeed USB (3.0) Ports	2 Type-A			
PXI Trigger Bus Input/Output	1 SMB			
Installed Operating System	Windows 10 IoT or Linux RT			
Trusted Platform Module	Optional TPM 2.0 (Infineon/ST TPM for global market, NationsTech TPM for China market)			

Table 1. PXIe-8822/42/62 Features

## Front Panel Dimensions

The following figure shows the front panel layout and dimensions of the PXIe-8822/42/62. Dimensions are in inches (millimeters).

Figure 1. PXIe-8822/42/62 Front Panel Layout and Dimensions



## Electrical



Note Does not include any attached devices.

Voltage (V)	Current (Amps) Typical	Current (Amps) Maximum
+3.3 V	3.75 A	4.25 A
+5 V	2.0 A	2.5 A
+12 V	6.0 A	7.6 A
-12 V	0 A	0 A
+5 V <sub>Aux</sub>	0.75 A	0.8 A



**Note** Power delivered to external loads through USB or Thunderbolt 3 ports should be included in system power budgets that include this controller module and peripheral modules.

## Physical

Board dimensions	Four-wide 3U PXI Express module
Slot requirements	One system slot plus three controller expansion slots
Compatibility	Fully compatible with <b>PXI Express Specification 1.0</b>
Weight	1.2 kg (2.6 lb) typical

## Environmental

Maximum altitude	4,600 m (570 mbar) (at 25 °C ambient)
Pollution Degree	2

Indoor use only.

## Operating Environment



**Caution** The operating temperature must not be exceeded, even when used in a chassis with a higher temperature range.

Ambient temperature range	0 °C 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.)
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Relative humidity range 10% to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)

## Storage Environment

Ambient temperature range<sup>[1]</sup> -40 °C 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

Operating 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

Operating 5 Hz to 500 Hz, 0.3 g<sub>rms</sub> (with solid-state hard drive)

Nonoperating<sup>1</sup> 5 Hz to 500 Hz, 2.4 g<sub>rms</sub> (Tested in accordance with IEC 60068-2-64. Nonoperating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

<sup>1</sup> CPU performance may decrease for some workloads if a unit is stored at the extreme ambient temperature range and then subjected to max nonoperating random vibration limits.

