SPECIFICATIONS

PXIe-8246

PXIe, 4-Port, GigE PXI Frame Grabber Module

This document lists the specifications for the PXIe-8246. Specifications are subject to change without notice. For the most recent device specifications, refer to *ni.com/support*.

Note These specifications are typical at 25 °C unless otherwise noted.

Contents

Gigabit Ethernet Interface

Standard	IEEE 802.3 10BASE-T, 100BASE-TX, 1000BASE-T
Number of ports	4
Interface	RJ45
Speed	10 Mbps, 100 Mbps, 1000 Mbps

Bus Interface

Form factor	PXI Express Gen-2 x4
Slot compatibility	x4, x8, and x16 PXI Express or PXI Express hybrid slots

Synchronization Resources

Input/output source	PXI_Trig<0..7>
Input source	PXI_Clk10, PXIe_Clk100

Notice PXI-1: PXI Hardware Specification and PXI-5: PXI Express Hardware Specification describe the PXI trigger bus for intermodule synchronization and communication. The trigger bus can be driven by multiple peripherals simultaneously, but doing so can result in hardware damage. Users must ensure triggers are not driven by multiple devices simultaneously.

Power Requirements

Power requirements are dependent on your application.

+3.3 V	3 A
+12 V	2 A
Power over Ethernet (PoE)	
Maximum operating power	16 W
Absolute maximum power	32 W
Nominal voltage	+51 V DC
Current	0.314 A
Withstand (channel-to-earth)	1500 V RMS (per the standard in IEEE 802.3)

Power Over Ethernet (PoE)

Standard	IEEE 802.3af compatible
Supported power classes	0, 1, 2, and 3
Power output	15.4 W (per port), 16 W (for 4 ports)
Isolation	IEEE 802.3af compliant, Environment A

Physical Characteristics

Dimensions (not including connectors)	21.6 cm x 2.0 cm x 13.0 cm (8.5 in. x 0.8 in. x 5.1 in.); 3U, one-slot PXI Express module
Weight	360 g (12.7 oz)

I/O Connectors	
Connector Type	RJ45
LED indicators	
Ethernet	1 Link/Activity LED and 1 Link Speed LED for each port
Power over Ethernet(PoE)	1 Status LED for each port

Environment

Maximum altitude	2,000 m (800 mbar) (at 25 °C ambient temperature)
Pollution Degree	2

Indoor use only.

Operating Environment

Ambient temperature range	0 °C to 55 °C
Relative humidity range	10% to 90%, noncondensing

Storage Environment

Ambient temperature range	-40 °C to 71 °C
Relative humidity range	5% to 95%, noncondensing

Shock and Vibration

Operating shock	30 g peak, half-sine, 11 ms pulse
Random vibration	
Operating	5 Hz to 500 Hz, 0.3 g_{rms}
Nonoperating	5 Hz to 500 Hz, 2.4 g_{rms}

378324A-02 August 12, 2020