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Find the *National Instruments PXI-8420/2* at our website: *Click HERE*

Legacy PXI Serial Hardware

Nonisolated PXI Two-Port Boards

Dimensions .....100 × 160 mm
(3.94 × 6.37 in.)

I/O connector DB-9

Power requirement (from PXI channel)

PXI-8420/2

+5 VDC .....100 mA typical
150 mA maximum

±12 VDC .....20 mA typical
200 mA maximum

PXI-8421/2

+5 VDC .....350 mA typical
750 mA maximum

Nonisolated PXI Four-Port Boards

Dimensions .....100 × 160 mm
(3.94 × 6.37 in.)

I/O connector[1] .....10-position modular jack

Power requirement (from PXI channel)

PXI-8420/4

+5 VDC .....125 mA typical
200 mA maximum

±12 VDC .....40 mA typical
400 mA maximum

PXI-8421/4

+5 VDC .....350 mA typical
750 mA maximum

[1] The four-port legacy PXI serial boards require a cable to convert the 10-position modular jack to either DB-9 or DB-25 connectors.

Nonisolated PXI Eight-Port Boards

Dimensions..... 100 × 160 mm
(3.94 × 6.37 in.)

I/O connector[1] ..... 68-position, SCSI type connector

Power requirement (from PXI channel)

PXI-8420/8

+5 VDC..... 150 mA typical
250 mA maximum

±12 VDC..... 80 mA typical
800 mA maximum

PXI-8421/8

+5 VDC..... 1.1 A typical
2.0 A maximum

Nonisolated PXI 16-Port Boards

Dimensions..... 100 × 160 mm
(3.94 × 6.37 in.)

I/O connector[2] ..... 100-position, SCSI type connector

Power requirement (from PXI channel)

PXI-8420/16

+5 VDC..... 500 mA typical
750 mA maximum

Isolated PXI Two-Port Boards

Dimensions..... 100 × 160 mm
(3.94 × 6.37 in.)

I/O connector..... DB-9

Rated voltage, continuous

RS-485 ..... –7 to +12 V

RS-232 ..... –25 to +25 V

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[1] The eight-port legacy PXI serial boards require a cable, which is included in your kit, to convert the 68-position connector to eight DB-9 connectors.

[2] The 16-port legacy PXI serial boards require a breakout box, which is included in your kit, to separate the 100-position connector to 16 DB-9 connectors.

Isolation voltage, noncontinuous (withstand)

From port to port .....2,000 V_{rms}/60 s

From any port to host computer .....2,000 V_{rms}/60 s

Power requirement (from PXI channel)

PXI-8422/2

+5 VDC .....400 mA typical
650 mA maximum

PXI-8423/2

+5 VDC .....800 mA typical
1.3 A maximum

Isolated PXI Four-Port Boards

Dimensions .....100 × 160 mm
(3.94 × 6.37 in.)

I/O connector[1].....10-position modular jack

Rated voltage, continuous

RS-485.....–7 to +12 V

RS-232.....–25 to +25 V

Isolation voltage, noncontinuous (withstand)

From port to port .....2,000 V_{rms}/60 s

From any port to host computer .....2,000 V_{rms}/60 s

Power requirement (from PXI channel)

PXI-8422/4

+5 VDC .....500 mA typical
750 mA maximum

PXI-8423/4

+5 VDC .....1.0 A typical
1.5 A maximum

Environmental Characteristics

Operating Environment

Ambient temperature .....0 to 55 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)

[1] The four-port legacy PXI serial boards require a cable to convert the 10-position modular jack to either DB-9 or DB-25 connectors.

Relative humidity ..... 10 to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)

Altitude (maximum)..... 2,000 m

Storage Environment

Ambient temperature..... –20 to 70 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)

Relative humidity ..... 5 to 95%, noncondensing (Tested in accordance with IEC-60068-2-56.)

Other Specifications

Maximum cable length

- RS-485[1] ..... 30 m (limited by EMC/surge)
- RS-232 ..... 2,500 pF equivalent (TIA-EIA-232-F 2.1.4)

Data line ESD protection (human body model)

- RS-485 ..... ± 15 kV
- RS-232 ..... ± 15 kV

[1] RS-485 is capable of 1.2 km (4,000 ft) without surge limitation.

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