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PXI-8516

SPECIFICATIONS

PXI-8516

2-Port PXI LIN Interface Module

This document lists specifications for the PXI-8516 2-port LIN interface module.

Definitions

Warranted specifications describe the performance of a model under stated operating conditions and are covered by the model warranty.

Characteristics describe values that are relevant to the use of the model under stated operating conditions but are not covered by the model warranty.

- *Typical* specifications describe the performance met by a majority of models.
- *Nominal* specifications describe an attribute that is based on design, conformance testing, or supplemental testing.

Specifications are *Typical* unless otherwise noted.

Conditions

Specifications are typical at 0 °C to 55 °C unless otherwise noted.

Power Requirements

+3.3 VDC (±5%)

940 mA

Physical

Dimensions and Weight

Dimensions

10.67 cm x 16.76 cm (4.2 in. x 6.6 in.)

Weight

102 g (3.6 oz)

RTSI/Front Panel Sync Connectors

Trigger lines	7 input/output
Clock lines	1 input/output
I/O compatibility	TTL
Power-on state	Input (High-Z)
Response	Rising edge triggers

Physical Characteristics

Transceiver ¹	ATMEL ATA6620 or ATA6625
Max baud rate	20 kbps
Min baud rate	2.4 kbps
Bus Power Required	+8 V to +18 V

Environmental

Operating temperature	0 °C to 55 °C
Storage temperature	-20 °C to 70 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Operating humidity	10% to 90% RH, noncondensing
Storage humidity	5% to 95% RH, noncondensing (Tested in accordance with IEC-60068-2-56.)
Maximum altitude	2000 m
Pollution Degree (IEC 60664)	2

Indoor use only.

¹ NI-XNET LIN hardware uses the Atmel ATA6620 or ATA6625 LIN transceiver for PCI-XNET and PXI-XNET LIN Interfaces, and the TJA1028 transceiver for C Series and Transceiver Cable XNET LIN interfaces. PXI-8516 and PCI-8516 XNET interfaces revision F and higher use the ATA6625 LIN transceiver, while revision E and lower use the ATA6620 LIN transceiver. To identify your PCI/PXI NI-XNET hardware revision, refer to the 19xxxx<rev>-4xL text on the green label in the top left corner on the secondary side of the board; <rev> indicates the hardware revision.

Shock

Operating shock	30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC-60068-2-27. Test profile developed in accordance with MIL-PRF-28800F.)
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Random Vibration

Operating	5 Hz to 500 Hz, 0.3 g _{rms}
Nonoperating	5 Hz to 500 Hz, 2.4 g _{rms} (Tested in accordance with IEC-60068-2-64. Nonoperating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

Safety

Isolation Voltages

Port-to-port ground	
Withstand	500 V _{rms} verified by a 5 s dielectric withstand test
Continuous	60 VDC, Measurement Category I
Port-to-earth ground	
Withstand	500 V _{rms} verified by a 5 s dielectric withstand test
Continuous	60 VDC, Measurement Category I



Note This isolation is intended to prevent ground loops.

Measurement Category I is for measurement performed on circuits not directly connected to the electrical distribution system referred to as MAINS voltage. MAINS is a hazardous live electrical supply system that powers equipment. This category is for measurements of voltages from specially protected secondary circuits. Such voltage measurements include signal levels, special equipment, limited-energy parts of equipment, circuits powered by regulated low-voltage sources, and electronics.



Caution Do not connect the PXI-8516 to signals or use for measurements within Measurement Categories II, III, or IV.



Attention Ne connectez pas le PXI-8516 à des signaux et ne l'utilisez pas pour effectuer des mesures dans les catégories de mesure II, III ou IV.



Note Measurement Categories CAT I and CAT O (Other) are equivalent. These test and measurement circuits are not intended for direct connection to the MAINS building installations of Measurement Categories CAT II, CAT III, and CAT IV.

Safety Standards

This product is designed to meet the requirements of the following standards of safety for information technology equipment:

- 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 [Product Certifications and Declarations](#) section.

Electromagnetic Compatibility

This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:

- EN 61326 (IEC 61326): Class A emissions; Basic immunity
- EN 55011 (CISPR 11): Group 1, Class A emissions
- 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 declarations and certifications, and additional information, refer to the [Product Certifications and Declarations](#) section.



Note For EMC compliance, operate this product according to the documentation.



Notice When operating this product, use shielded cables and accessories.

CE Compliance

This product meets the essential requirements of applicable European Directives, as follows:

- 2014/35/EU; Low-Voltage Directive (safety)
- 2014/30/EU; Electromagnetic Compatibility Directive (EMC)

Product Certifications and Declarations

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for NI products, visit ni.com/product-certifications, search by model number, and click the appropriate link.

Environmental Management

NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the *Commitment to 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 NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit ni.com/environment/weee.

电子信息产品污染控制管理办法（中国 RoHS）



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