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# TYPE EXAMINATION CERTIFICATE



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## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] Type Examination Certificate Number: **UL 21 ATEX 2518X Rev. 8**

[4] Product: **Modules, Controllers, Backplanes, Chassis, and Peripheral Equipment**

[5] Manufacturer: **National Instruments Corporation**

[6] Address: **11500 N Mopac Expy, Austin, TX, 78759 USA**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **US/UL/ExTR21.0013/08.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN IEC 60079-7:2015/A1:2018**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

 **II 3 G Ex ec IIC T4 Gc**

**Certification Manager**  
Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2021-05-27  
**Re-issued:** 2024-09-30

**Certification Body**

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## Schedule TYPE EXAMINATION CERTIFICATE No. UL 21 ATEX 2518X Rev. 8

[15] Description of Product:

The models comprise of open type measurement system for industrial process application. Products are intended to be installed into an end use enclosure. The system consists of a maximum 8-slot chassis.

The models may be referenced as XXXX, NI XXXX, NI-XXXX, cRIO-XXXX, cDAQ-XXXX, or NI cRIO-XXXX where XXXX represents the model number.

The models with DSUB connectors may be referenced as “with DSUB” or “w/ DSUB”.

The models with BNC connectors may be referenced as “with BNC” or “w/ BNC”.

The models with mini TC connectors may be referenced as “with Mini TC” or “w/ Mini TC”.

cRIO-904x models may be followed by TPM.

Models may be represented by either model name or model p/n.

Performance testing

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015.

Electrical data

Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
cDAQ-9171	Automatic Data Processing Machine Unit (Extended Module Slot)	A USB based cDAQ carrier	5 VDC, 500 mA Max. (USB); CAT O “Non-Isolated”, 5000 m altitude	-20°C ≤ Ta ≤ 55°C
cDAQ-9181	Automatic Data Processing Machine Unit (Extended Module Slot)	Ethernet carrier that accepts one measurement module	9-30 VDC, 15W, 5000 m altitude	0°C ≤ Ta ≤ 55°C
cDAQ-9183	Automatic Data Processing Machine Unit (Extended Module Slot)	4 slot Ethernet Chassis	9-30 VDC, 16W	-40°C ≤ Ta ≤ 70°C
cDAQ-9185	Automatic Data Processing Machine Unit (Extended Module Slot)	4 slot Ethernet Chassis	9-30 VDC, 16W	-40°C ≤ Ta ≤ 70°C
cDAQ-9187	Automatic Data Processing Machine Unit (Extended Module Slot)	8 slot Ethernet Chassis	9-30 VDC, 16W	-40°C ≤ Ta ≤ 70°C
cDAQ-9189	Automatic Data Processing Machine Unit (Extended Module Slot)	8 slot Ethernet Chassis	9-30 VDC, 16W	-40°C ≤ Ta ≤ 70°C
cRIO-9030	Controller of Automatic Data Processing Machine	4 slot controllers for C Series I/O modules	9-30 VDC, 40 W man CAT I RS-485-to-earth	-20°C ≤ Ta ≤ 55°C
cRIO-9031	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Real-Time Processor and Reconfigurable FPGA	9-30 VDC, 40 W man CAT I RS-485-to-earth	-40°C ≤ Ta ≤ 70°C
cRIO-9032	Controller of Automatic Data Processing Machine	4 slot controllers for C Series I/O modules	9-30 VDC, 40 W man CAT I RS-485-to-earth	-20°C ≤ Ta ≤ 55°C
cRIO-9033	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Real-Time Processor and Reconfigurable FPGA	9-30 VDC, 40 W man CAT I RS-485-to-earth	-40°C ≤ Ta ≤ 70°C
cRIO-9034	Controller of Automatic Data Processing Machine	4 slot controllers for C Series I/O modules	9-30 VDC, 40 W man CAT I RS-485-to-earth	-20°C ≤ Ta ≤ 55°C
cRIO-9035	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller	9-30 VDC, 46 W, 60 VDC CAT O, RS485 to Earth ≤ 5000 m Altitude	-20°C ≤ Ta ≤ 55°C

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
cRIO-9036	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller	9-30 VDC, 46 W, 60 VDC CAT O, RS485 to Earth ≤ 5000 m Altitude	-40°C ≤ Ta ≤ 70°C
cRIO-9037	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller	9-30 VDC, 46 W, 60 VDC CAT O, RS485 to Earth ≤ 5000 m Altitude	-20°C ≤ Ta ≤ 55°C
cRIO-9038	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller	9-30 VDC, 46 W, 60 VDC CAT O, RS485 to Earth ≤ 5000 m Altitude	-40°C ≤ Ta ≤ 70°C
cRIO-9039	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller	9-30 VDC, 46 W, 60 VDC CAT O, RS485 to Earth ≤ 5000 m Altitude	-20°C ≤ Ta ≤ 55°C
cRIO-9040	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Reconfigurable FPGA	9-30 VDC, 60 W maximum power consumption	-20°C ≤ Ta ≤ 55°C
cRIO-9041	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Reconfigurable FPGA	9-30 VDC, 60 W maximum power consumption	-40°C ≤ Ta ≤ 70°C
cRIO-9042	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Reconfigurable FPGA	9-30 VDC, 60 W maximum power consumption	-40°C ≤ Ta ≤ 70°C
cRIO-9043	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Reconfigurable FPGA	9-30 VDC, 60 W maximum power consumption	-40°C ≤ Ta ≤ 70°C
cRIO-9045	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA	9-30 VDC, 60 W	-20°C ≤ Ta ≤ 55°C
cRIO-9046	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA	9-30 VDC, 60 W	-40°C ≤ Ta ≤ 70°C
cRIO-9047	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA	9-30 VDC, 60 W	-40°C ≤ Ta ≤ 70°C
cRIO-9048	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA	9-30 VDC, 60 W	-40°C ≤ Ta ≤ 70°C
cRIO-9049	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA	9-30 VDC, 60 W	-20°C ≤ Ta ≤ 55°C
cRIO-9053	Controller of Automatic Data Processing Machine	1.33 GHz Dual-Core CPU, 1 GB DRAM, 2 GB Storage, Artix-7 50T FPGA, 4-Slot CompactRIO Controller	9-30 VDC, 30 W Maximum	-20°C ≤ Ta ≤ 55°C

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
cRIO-9054	Controller of Automatic Data Processing Machine	1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, 4-Slot CompactRIO Controller	9-30 VDC, 30 W Maximum	-20°C ≤ Ta ≤ 55°C
cRIO-9055	Controller of Automatic Data Processing Machine	1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, Extended Temperature, 4-Slot CompactRIO Controller	9-30 VDC, 30 W Maximum	-40°C ≤ Ta ≤ 70°C
cRIO-9056	Controller of Automatic Data Processing Machine	1.33 GHz Dual-Core CPU, 1 GB DRAM, 2 GB Storage, Artix-7 75T FPGA, 8-Slot CompactRIO Controller.	9-30 VDC, 30 W Maximum	-20°C ≤ Ta ≤ 55°C
cRIO-9057	Controller of Automatic Data Processing Machine	1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, 8-Slot CompactRIO Controller.	9-30 VDC, 30 W Maximum	-20°C ≤ Ta ≤ 55°C
cRIO-9058	Controller of Automatic Data Processing Machine	1.33 GHz Dual-Core CPU, 2 GB DRAM, 4 GB Storage, Artix-7 100T FPGA, Extended Temperature, 8-Slot CompactRIO Controller	9-30 VDC, 30 W Maximum	-40°C ≤ Ta ≤ 70°C
cRIO-9063	Controller of Automatic Data Processing Machine	4-slot chassis with integrated controllers	9-30 VDC, 18 W, Altitude 5000 m	-20°C ≤ Ta ≤ 55°C
cRIO-9064	Controller of Automatic Data Processing Machine	4-slot chassis with integrated controllers	9-30 VDC, 18 W, Altitude 5000 m	-20°C ≤ Ta ≤ 55°C
cRIO-9065	Controller of Automatic Data Processing Machine	4-slot chassis with integrated controllers	9-30 VDC, 18 W, Altitude 5000 m	-40°C ≤ Ta ≤ 70°C
cRIO-9066	Controller of Automatic Data Processing Machine	Embedded Real-Time Controller with Reconfigurable FPGA	9-30 VDC, 25 W	-20°C ≤ Ta ≤ 55°C
cRIO-9067	Controller of Automatic Data Processing Machine	Embedded Real-Time Controller with Reconfigurable FPGA	9-30 VDC, 25 W	-20°C ≤ Ta ≤ 55°C
cRIO-9068	Controller of Automatic Data Processing Machine	8- slot chassis with integrated controller	9-30 VDC, 25 W	-40°C ≤ Ta ≤ 70°C
NI-9145	Automatic Data Processing Machine Unit (Extended Module Slot)	8 slot Ethernet expansion chassis	9-30 VDC, 16 W, 5,000 m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9147	Automatic Data Processing Machine Unit (Extended Module Slot)	4-slot chassis with integrated controllers	9-30 VDC, 11 W, 5,000 m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9149	Automatic Data Processing Machine Unit (Extended Module Slot)	Ethernet Expansion Chassis	9-30 VDC, 19 W	-40°C ≤ Ta ≤ 70°C
NI-9157	Automatic Data Processing Machine Unit (Extended Module Slot)	Backplane (chassis), 14 slot	9-30 VDC, 35 W (No Controller)	0°C ≤ Ta ≤ 55°C
NI-9159	Automatic Data Processing Machine Unit (Extended Module Slot)	Backplane (chassis), 14 slot	9-30 VDC, 35 W (No Controller)	0°C ≤ Ta ≤ 55°C

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9201	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, $\pm 10V$ , 12 Bit Analog Input	$\pm 10 V$ 12-Bit Analog Input, $\pm 10V$ Ch-to-COM, 250Vrms CAT II Ch-to-Earth Isolation	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9201 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, 12 Bit Analog Input Module	$\pm 10V$ 12-Bit Analog Input, $\pm 10V$ Ch-to-COM, 60Vdc CAT I Ch-to-Earth Isolation	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9202	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel AI module	$\pm 10V$ , 250 Vrms CAT II Channel to Earth, 5,000m Altitude	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9202 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel AI module	60 Vdc, 16 channel AI module, 60Vdc CAT O Channel to Earth	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9203	Automatic Data Processing Machine Unit (Signal Convert Board)	20mA AI Module	$\pm 20mA$ 16-Bit Analog Input, 250Vrms CAT II Ch-to-Earth Isolation	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9204	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH, AI Module.	$\pm 10 V$ to $\pm 200 mV$ 16-Bit Analog Input, $\pm 10V$ Ch-to- COM, 250Vrms CAT II Ch-to-Earth	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9204 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH, AI Module	$\pm 10 V$ to $\pm 200 mV$ 16-Bit Analog Input, $\pm 10 V$ CH to COM, 60Vdc CAT I Ch-to- Earth Isolation	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9205	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, AI Module.	$\pm 10 V$ to $\pm 200 mV$ 16-Bit Analog Input, $\pm 10V$ Ch-to-COM, 250Vrms CAT II Ch-to-Earth	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9205 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, AI Module	$\pm 10 V$ to $\pm 200 mV$ 16-Bit Analog Input,, $\pm 10 V$ CH to COM, 60Vdc CAT I Ch-to-Earth Isolation	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9206	Automatic Data Processing Machine Unit (Signal Convert Board)	AI Module	16-Bit Analog Input for Fuel Cells, $\pm 10 V$ CH-to-COM, 600/400Vdc CAT I Ch-to-Earth Isolation	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9207	Automatic Data Processing Machine Unit (Signal Convert Board)	Combination voltage and current input C Series module	$\pm 10Vdc$ Measurement Voltage, $\pm 21.5mA$ Measurement Current, $\pm 30 V$ Working Voltage, 250 Vrms CAT II Channel to Earth	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9207 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, Analog Input, TC; Voltage	$\pm 20 mA$ , $\pm 10 V$	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9208	Automatic Data Processing Machine Unit (Signal Convert Board)	C Series Current Input Module has 16 channels of $\pm 21 mA$ input	$\pm 21.5mA$ Measurement Current, $\pm 30 V$ Working Voltage, 250 Vrms CAT II Channel to Earth	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$
NI-9208 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, Analog Input, Current	$\pm 20 mA$	$-40^{\circ}C \leq Ta \leq +70^{\circ}C$

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9209	Automatic Data Processing Machine Unit (Signal Convert Board)	Voltage input C Series modules	± 10 Vdc Measurement Voltage, ± 30 V Working Voltage, 250 Vrms CAT II Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9209 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	Voltage input C Series modules	60V CAT I Ch-to-Earth	-40°C ≤ Ta ≤ +70°C
NI-9210	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Channel C Series Temperature Input Model	250 V RMS, ± 80mV Measurement Voltage, ± 1.5V Channel to COM, 250V CAT II Channel to Earth ≤ 5000m Altitude	-40°C ≤ Ta ≤ +70°C
NI-9210 with MINI TC	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Channel C Series Temperature Input Model	± 80mVdc Measurement Voltage, ± 30 V Working Voltage, 60 Vdc CAT O Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9211	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH. Thermocouple Input Module	±80mV 24-Bit Thermocouple Input, ±1.5V Ch-to-COM, 250Vrms CAT II Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9212, TB-9212	Automatic Data Processing Machine Unit (Signal Convert Board)	Channel-to-channel isolated thermocouple input module	Up to 5000m ±78.125mV 60Vdc CAT I Ch-to-earth 60Vdc CAT I Ch-to-ch; Up to 2000m 250Vrms CAT II Ch-to-Ch, 250Vrms CAT II Ch-to-Earth	-40°C ≤ Ta ≤ +70°C
NI-9212, TB-9212 with Mini TC	Automatic Data Processing Machine Unit (Signal Convert Board)	Channel to Channel isolated thermocouple input module	Up to 5000m 60Vdc CAT I Ch-to-earth 60Vdc CAT I Ch-to-ch	-40°C ≤ Ta ≤ +70°C
NI-9213	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Thermocouple Analog Input	±78 mV	-40°C ≤ Ta ≤ +70°C
NI-9214, TB-9214	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Thermocouple Analog Input with Terminal Block	±78 mV	-40°C ≤ Ta ≤ +70°C
NI-9215 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, ±10V, 16 Bit Analog Input	±10V 16-Bit Simultaneous Analog Input, ±10V AI+ to AI-, 60Vdc CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9215	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH. Simultaneous Sampling Analog Input Module	±10V 16-Bit Simultaneous Analog Input, ±10V AI+ to AI-, 250Vrms CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9216	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module	± 30 V Working Voltage, 250V CAT II Ch-to-Earth (Isolation Voltage)	-40°C ≤ Ta ≤ +70°C
NI-9216 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module	± 30V Working Voltage, 60V CAT I Channel to Earth, 1000V Withstand ≤3000m Altitude; 860V Withstand ≤ 5000m Altitude	-40°C ≤ Ta ≤ +70°C
NI-9217	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Ch 100Ω Analog Input Module	100 Ohm 24-Bit RTD Analog Input, 250V rms Channel to Earth Iso.	-40°C ≤ Ta ≤ +70°C



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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9218	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel IO module	30Vdc, Vsup Input, 60Vdc CAT I Channel to Earth, ≤ 5000m Altitude	-40°C ≤ Ta ≤ +70°C
NI-9218 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel IO module	16Vdc input; 9-30Vdc/1.8W input 60V CAT I Ch-to-earth, Ch-to-Ch, Altitude 5000m	-40°C ≤ Ta ≤ +70°C
NI-9219	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Universal AI	60 Vdc CAT I Channel to Earth / Channel to Ground	-40°C ≤ Ta ≤ +70°C
NI-9220 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel analog input modules	± 10 V Working Voltage 60 VDC CAT O, Channel to Earth Iso, 5000 m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9220	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel analog input modules	± 10 V Working Voltage 250 V CAT II Channel to Earth Iso, 2000 m Altitude 60 VDC CAT O, Channel to Earth Iso, 5000 m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9221	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, ±60V, 12 Bit Analog Input	± 60V 12-Bit Analog Input, ±60V Ch-to-COM, 250Vrms CAT II Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9221 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, 12 Bit Analog Input Module	± 60V 12-Bit Analog Input, ±60V Ch-to-COM, 60Vdc CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9222	Automatic Data Processing Machine Unit (Signal Convert Board)	±10V, 4 CH, Analog Input	+/- 10 V Working Voltage 60 Vdc CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9222 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	4-channel AI module	±10V 60VDC CAT I Ch-to-Grd, Ch-to-Ch	-40°C ≤ Ta ≤ +70°C
NI-9223 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	4-channel AI module	±10V 60VDC CAT I Ch-to-Grd, Ch-to-Ch	-40°C ≤ Ta ≤ +70°C
NI-9223	Automatic Data Processing Machine Unit (Signal Convert Board)	±10V, 4 CH, Analog Input	+/- 10 V Working Voltage 60 Vdc CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9224	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel AI module	± 10V, 60 VDC isolation Channel to Channel and Channel to Ground, up to 5000m	-40°C ≤ Ta ≤ +70°C
NI-9226	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module	± 30 V Working Voltage, 250V CAT II Ch-to-Earth (Isolation Voltage)	-40°C ≤ Ta ≤ +70°C
NI-9226 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module	± 30V Working Voltage, 60V CAT I Channel to Earth, 1000V Withstand ≤3000m Altitude; 860V Withstand ≤ 5000m Altitude	-40°C ≤ Ta ≤ +70°C
NI-9228	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel AI module	± 60 VDC continuous, and isolated Channel to Channel and Channel to Ground, up to 5000m	-40°C ≤ Ta ≤ +70°C

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9229	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	60 Vdc	-40°C ≤ Ta ≤ +70°C
NI-9229 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	60 Vdc	-40°C ≤ Ta ≤ +70°C
NI-9230	Automatic Data Processing Machine Unit (Signal Convert Board)	3-channel C Series dynamic signal acquisition modules	± 30 V Working Voltage, 60 Vdc CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9230 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	3-channel C Series dynamic signal acquisition modules	± 30 V Working Voltage, 60 Vdc CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9231	Automatic Data Processing Machine Unit (Signal Convert Board)	10-32 coaxial jack is 8 channel AI modules	±5V, 24 Bit Analog Input, 5000m altitude	-40°C ≤ Ta ≤ +70°C
NI-9232	Automatic Data Processing Machine Unit (Signal Convert Board)	IEPE and AC/DC Analog Input Module	+/- 30V Working Voltage, 60VDC CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9232 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	3-channel C Series dynamic signal acquisition modules	± 30 V Working Voltage, 60 Vdc CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9234	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Channel, ± 5 V, 24-Bit IEPE Analog Input Module	±5 V Working Voltage	-40°C ≤ Ta ≤ +70°C
NI-9235	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Analog Input Module	3.3 Vrms	-40°C ≤ Ta ≤ +70°C
NI-9236	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Analog Input Module	3.3 Vrms	-40°C ≤ Ta ≤ +70°C
NI-9237	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Channel 24-Bit Half/Full Bridge Analog Input Module Vdc AI Bridge.	±30 V dc AI Bridge	-40°C ≤ Ta ≤ +70°C
NI-9237 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH 24-Bit Half/Full Bridge Analog Input Module Vdc AI Bridge.	±30 Vdc AI Bridge	-40°C ≤ Ta ≤ +70°C
NI-9238	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Analog Input channels	250 Vrms, CAT II Channel to Earth and Channel to Channel ≤ 2000 m Altitude, 60 V CAT I Channel to Earth and Channel to Channel ≤ 5000 m Altitude	-40°C ≤ Ta ≤ +70°C
NI-9239	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	10 Vdc	-40°C ≤ Ta ≤ +70°C
NI-9239 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	10 Vdc	-40°C ≤ Ta ≤ +70°C
NI-9242	Automatic Data Processing Machine Unit (Signal Convert Board)	3 Analog Input channels, 1 Neutral	250 V Working Voltage, 250 V CAT III Channel to Earth ≤ 5000 m Altitude	-40°C ≤ Ta ≤ +70°C



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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9244	Automatic Data Processing Machine Unit (Signal Convert Board)	3 Analog Input channels, 1 Neutral	400 Vrms L-N, 800 Vrms L-L Working Voltage, 400 V CAT III Channel to Earth $\leq$ 2000 m Altitude, 400 V CAT II or 300 V CAT III Channel to Earth $\leq$ 5000 m Altitude	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9250 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel AI module	$\pm 5$ V input, $\pm 30$ V overvoltage, 5,000 m Altitude	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9251 with mini XLR	Automatic Data Processing Machine Unit (Signal Convert Board)	2-channel, 24-bit differential analog input module	3Vrms, $\leq 5000$ m Altitude	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9252	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog input module	$\pm 10$ V 24-bit simultaneous analog input. 250 Vrms CAT II Channel to Earth 60 VDC CAT O Ch-to-earth	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9252 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog input module	$\pm 10$ V 24-bit simultaneous analog input. 250 Vrms CAT II Channel to Earth 60 VDC CAT O Ch-to-earth	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9253	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog input module	$\pm 20$ mA 24-bit simultaneous analog input 250 Vrms CAT II Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI 9326	Automatic Data Processing Machine Unit (Signal Convert Board)	6-Ch Zero Crossing C-Series Frequency Input Module	150Vrms, 128kHz, CAT I Ch-Ch/ Ch-Earth isolation, 5000m, 0.89 W Maximum	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI 9381 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	20-channel 0-5V MIO modules	0-5V Working Voltage	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI 9775	Automatic Data Processing Machine Unit (Signal Convert Board)	4 channel, 20 MS/s, 14 Bit Digitizer C Series Module	$\pm 10$ Vdc Measurement Voltage, $\pm 30$ V Working Voltage, Non-Isolated Module	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9260 with BNC	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel analog voltage output modules	$\pm 3$ Vrms output, 7mA $\leq$ 5000m Altitude	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9260 with miniXLR	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel analog voltage output modules	$\pm 3$ Vrms output, 7mA $\leq$ 5000m Altitude	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9262 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	6 channel AO module	60Vdc CAT I (O) Channel to Earth Iso	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9263	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Analog Voltage Output Module	$\pm 10.7$ V dc	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
NI-9264	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, $\pm 10$ V, 16-Bit Analog Voltage Output Module	$\pm 10$ V Working Voltage 10 V CAT I Channel to COM	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9264 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, $\pm 10$ V, 16-Bit Analog Output Module	+/- 10 V	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9265	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, 16 Bit Analog Current Output Module	20mA 16-Bit Analog Output, 36V Vsup-to-COM, 250Vrms CAT II Signal-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9266	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog output module	0-20mA, 12 VDC working voltage, with 250Vrms CAT II isolation Channel to Earth, 3,000m Altitude	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9266 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel AO module	60 VDC, CAT I, 1000 Vrms withstand.	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9269	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Channel, $\pm 10$ V, 16-Bit, Simultaneous, Channel-to-Channel Isolated Analog Voltage Output Module	$\pm 10.5$ V Working Voltage 60 Vdc CAT I Channel to Earth	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI 9350	Automatic Data Processing Machine Unit (Signal Convert Board)	8-Ch Digital Input/Output, SIL2 Module	30 VDC max on DIO, 60 VDC Channel to Earth, CAT I, 5,000m Altitude	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI 9351	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Ch Digital Input/Output, 4-Ch AI, SIL2 Module	30 VDC max on DIO, AI-to-COM 20 VDC maximum, 60 VDC, CAT I, 5,000m Altitude	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9361	Automatic Data Processing Machine Unit (Signal Convert Board)	8-Channel Differential Counter Input Module with 30V input max	30Vdc, 60Vdc CAT I, Channel to Earth, Vsup to Earth $\leq$ Altitude 5000m	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9375	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH DIO	30 V dc DIO to COM	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9375 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	32 Channel Digital Input / Output Module	6-30 Vdc, 250 mA	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9401	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, TTL Digital I/O	5 V TTL High-Speed Digital Input/Output, 60Vdc CAT I Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9402	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Digital Input/Output Module	LVTTL Input/Output	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9403 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	32-Channel, $\pm 5$ V, 32-Bit, TTL Digital Input/Output Module	5 Vdc Working Voltage 60 Vdc CAT I Channel to Earth	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9411	Automatic Data Processing Machine Unit (Signal Convert Board)	6 CH. Differential Digital Input Module	$\pm 24$ V Ch-to-COM, 30V Vsup-to-COM, 60 Vdc CAT I Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9421	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Low Speed Digital Input Module	24 V Sinking Digital Input, 30V Ch-to-COM, 250Vrms CAT II Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
NI-9421 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, 24V Digital Input	24 V Sinking Digital Input, 30V Ch-to-COM, 60Vdc CAT I Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9423	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. High Speed Digital Input Module	24 V High-Speed Sinking Digital Input, 30V Ch-to-COM, 250Vrms CATII Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9425	Automatic Data Processing Machine Unit (Signal Convert Board)	32 channel DI module, sinking inputs	30 V Working Voltage 250 Vrms Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9425 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, 24V Digital Input	24V Sinking Input, 60 Vdc max, 60 Vdc CAT I Channel to Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9426 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH Digital Input	30 V dc	-40°C ≤ Ta ≤ +70°C
NI 9467	Automatic Data Processing Machine Unit (Signal Convert Board)	GPS Sync Module with Antenna	5VDC, 30mA	-40°C ≤ Ta ≤ +70°C
NI 9469	Automatic Data Processing Machine Unit (Signal Convert Board)	Timing and Sync Module	-1.4-3.8VDC Working Voltage	-40°C ≤ Ta ≤ +70°C
NI-9470	Automatic Data Processing Machine Unit (Signal Convert Board)	8-Ch Variable Digital Output with Current Readback	5-30V Vsup-to-COM, 15A max.  Output: 3A/ Two channels; 1.6A/All Channels	-40°C ≤ Ta ≤ +70°C
NI-9472	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Digital Output Module	24V Sourcing Digital Output, 30 V Vsup-to-COM, 250 Vrms CAT II Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9472 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, 24V Digital Output	24 V Sourcing Digital Output, 30V Vsup-to-COM, 60Vdc CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9474	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Digital Output Module	24 V High-Speed Sourcing Digital Output, 30V Vsup-to-COM, 250Vrms CAT II Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9475 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Sourcing Digital Output	60 V dc	-40°C ≤ Ta ≤ +70°C
NI-9476	Automatic Data Processing Machine Unit (Signal Convert Board)	32 channel DO module, sourcing outputs	36 Vdc Working Voltage 0.25 A per Channel 250 Vrms Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI-9476 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, 24V Digital Output	36V Sourcing Digital Output, 36Vdc Vsup-to-COM, 60Vdc CAT I Signal-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9477	Automatic Data Processing Machine Unit (Signal Convert Board)	32-Ch Sinking Digital Output Module	5-60V dc Sinking Digital Output, 60V Ch-to-COM, 60Vdc Cat I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ +70°C
NI-9478 with DSUB	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Sinking Digital Output	50 V dc, 1.2 A Max	-40°C ≤ Ta ≤ +70°C

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Model Name	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9485	Automatic Data Processing Machine Unit (Signal Convert Board)	SSR Module	± 60 Vdc Ch to Ch; 250 Vrms CAT II, Channel to Earth, altitudes ≤ 2000m 60Vdc CAT, I, Ch-to-Earth Iso, altitudes ≤ 5000m, 60Vdc Ch-to-Ch Iso, altitudes ≤ 5000m	-40°C ≤ Ta ≤ +70°C
NI 9770	Automatic Data Processing Machine Unit (Signal Convert Board)	RF module with a 50Ω RF input	30 kHz – 100 MHz 50Ω RF Input	-40°C ≤ Ta ≤ +70°C
cRIO-9803	Solid State Drive	Solid state drive expansion module, 64GB, 40GB or no drive	4.5W max, 900 mA @ 5V	-40°C ≤ Ta ≤ +70°C
cRIO-9805	Industrial Network Switch	4-port 802.1AS Ethernet Switch module	9-30V, 5W, CAT I	-40°C ≤ Ta ≤ +70°C
NI 9853	Automatic Data Processing Machine Unit (Signal Convert Board)	2 Port High Speed CAN	2-port High-Speed CAN, 60Vdc Port-to-Earth Port-to-Port Isolation	-40°C ≤ Ta ≤ +70°C
NI 9860	Automatic Data Processing Machine Unit (Signal Convert Board)	Multi-port dongled module; NI-XNET Hardware Selectable Interface	9-30Vdc, 1.6W	-40°C ≤ Ta ≤ +70°C
NI 9862	Automatic Data Processing Machine Unit (Signal Convert Board)	1-Port High Speed xNET CAN Modules	9-30VDC -Vsup, 60VDC CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI 9866	Automatic Data Processing Machine Unit (Signal Convert Board)	1-Port High Speed xNET CAN Modules	8-18VDC -Vsup, 60VDC CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
NI 9870	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Port RS485 Serial Module	Communication	-40°C ≤ Ta ≤ +70°C
NI 9871	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Port RS485 Serial Module	Communication	-40°C ≤ Ta ≤ +70°C
NI 9881	Automatic Data Processing Machine Unit (Signal Convert Board)	1-Port High Speed xNET CAN Modules	9-30VDC -Vsup, 60VDC CAT I Channel to Earth	-40°C ≤ Ta ≤ +70°C
TRC-8542	Automatic Data Processing Machine Unit (Signal Convert Module)	NI-XNET CAN HS/FD Communication 1-port transceiver cable	5 Vdc; 60Vdc CAT O Ch-to-grd, 5000m altitude	-40°C ≤ Ta ≤ +70°C
TRC-8543	Automatic Data Processing Machine Unit (Signal Convert Module)	NI-XNET CAN XS (LS/FT, HS/FD) Communication 1-port transceiver cable	5 Vdc; 60Vdc CAT O Ch-to-grd, 5000m altitude	-40°C ≤ Ta ≤ +70°C
TRC-8546	Automatic Data Processing Machine Unit (Signal Convert Module)	NI-XNET LIN Communication 1-port transceiver cable	5 Vdc; 60Vdc CAT O Ch-to-grd, 5000m altitude	-40°C ≤ Ta ≤ +70°C

Routine tests

Routine tests are not required.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this Type Examination Certificate.

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Specific conditions of use:

- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the product.
- For use in explosive atmospheres, install the product in an enclosure rated to at least IP54 as defined by EN IEC 60079-0.
- The product shall only be used in an area of not more than Pollution Degree 2, as defined in EN 60664-1.
- The enclosure must have a door or cover accessible only by use of a tool.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information



The trademark

,  or "NI" will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.