

TYPE EXAMINATION CERTIFICATE



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. 5**
- [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/ExTR21.0013/05**.
- [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: 2023-09-28

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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Schedule

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[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	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
cDAQ-9171	195724E-01L	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	150227F-02L	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
	150227F-12L	Automatic Data Processing Machine Unit (Extended Module Slot)	Ethernet carrier that accepts one measurement module with Conformal Coating		
cDAQ-9185	142095C-01L	Automatic Data Processing Machine Unit (Extended Module Slot)	4 slot Ethernet Chassis	9-30 VDC, 15W	-40°C ≤ Ta ≤ 70°C
	142095C-12L	Automatic Data Processing Machine Unit (Extended Module Slot)	4 slot Ethernet Chassis with Conformal Coating		
cDAQ-9189	142143C-01L	Automatic Data Processing Machine Unit (Extended Module Slot)	8 slot Ethernet Chassis	9-30 VDC, 15W	-40°C ≤ Ta ≤ 70°C
	142143C-12L	Automatic Data Processing Machine Unit (Extended Module Slot)	8 slot Ethernet Chassis with Conformal Coating		
cRIO-9030	156502G-11L 156502H-11L	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	156502G-01L 156502H-01L	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	141651D-03L 141651E-03L 141651D-06L 141651E-06L 141651D-07L 141651E-07L	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	156502G-02L 156502H-02L	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	156502G-03L 156502H-03L	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	141099E-11L 141099F-11L 157732F-11L 157732G-11L (alternate)	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-9036	157732F-01L 157732G-01L	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	141099E-03L 141099F-03L 141099E-06L 141099F-06L 141099E-07L 141099F-07L	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	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
cRIO-9038	157732F-21L 157732G-21L	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller (OEM Version)	9-30 VDC, 46 W, 60 VDC CAT O, RS485 to Earth ≤ 5000 m Altitude	-40°C ≤ Ta ≤ 70°C
	157732F-02L 157732G-02L	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller		
	157732F-12L 157732G-12L	Controller of Automatic Data Processing Machine	8-slot integrated chassis and controller with Conformal Coating		
cRIO-9039	157732F-03L 157732G-03L 141099E-15L 141099F-15L (alternate)	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	145050D-01L 145050E-01L	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	145050D-05L 145050E-05L	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	145050D-02L 145050E-02L	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
	145050D-06L 145050E-06L	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Reconfigurable FPGA with Conformal Coating		
cRIO-9043	145050D-03L	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
	145050D-04L	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with Reconfigurable FPGA with Conformal Coating		
cRIO-9045	145051D-01L 145051E-01L	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	145051D-05L 145051E-05L	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	145051D-04L 145051E-04L	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
	145051D-06L 145051E-06L	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA with Conformal Coating		
cRIO-9048	145051D-02L	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
	145051D-07L	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA with Conformal Coating		
	145051D-11L	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA with TPM		
cRIO-9049	145051D-03L	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	149288D-01L 149288E-01L	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	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
cRIO-9054	149288D-02L 149288E-02L	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	149288D-03L 149288E-03L	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
	149288D-13L 149288E-13L	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 with Conformal Coating		
cRIO-9056	146494F-01L 146494G-01L	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	146494F-02L 146494G-02L	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	146494F-03L 146494G-03L	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
	146494F-13L 146494G-13L	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 with Conformal Coating		
cRIO-9063	156839C-02L	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	156839C-01L	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	156839C-03L	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
	156839C-04L	Controller of Automatic Data Processing Machine	4-slot chassis with integrated controllers with Conformal Coating		
cRIO-9066	155824G-02L	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	155824G-01L	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	155195G-01L	Controller of Automatic Data Processing Machine	8- slot chassis with integrated controller	9-30 VDC, 25 W	-40°C ≤ Ta ≤ 70°C
	155195G-03L	Controller of Automatic Data Processing Machine	8- slot chassis with integrated controller with Conformal Coating		
NI-9145	143035C-01L	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	156839C-11L	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
	156839C-12L	Automatic Data Processing Machine Unit (Extended Module Slot)	4-slot chassis with integrated controllers with Conformal Coating		
NI-9149	155824G-11L	Automatic Data Processing Machine Unit (Extended Module Slot)	Ethernet Expansion Chassis	9-30 VDC, 19 W	-40°C ≤ Ta ≤ 70°C
	155824G-12L	Automatic Data Processing Machine Unit (Extended Module Slot)	Ethernet Expansion Chassis with Conformal Coating		
NI-9157	199305C-01L	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	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9159	199305C-02L	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-9201	194922E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, ±10V, 12 Bit Analog Input	± 10 V 12-Bit Analog Input, ±10V Ch-to-COM, 250Vrms CAT II Ch-to-Earth Isolation	-40°C ≤ Ta ≤ 70°C
	194922E-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, ±10V, 12 Bit Analog Input (Alternate Connector)		
	194922E-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, ±10V, 12 Bit Analog Input (OEM)		
NI-9201 with DSUB	194926E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, 12 Bit Analog Input Module	±10V 12-Bit Analog Input, ±10V Ch-to-COM, 60Vdc CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ 70°C
NI-9202	141054C-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel AI module	± 10V, 250 Vrms CAT II Channel to Earth, 5,000m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9202 with DSUB	141054C-02L	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°C ≤ Ta ≤ 70°C
	141054C-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel AI module with Conformal Coating		
NI-9203	198861D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	20mA AI Module.	±20mA 16-Bit Analog Input, 250Vrms CAT II Ch-to-Earth Isolation	-40°C ≤ Ta ≤ 70°C
	198861D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	20mA AI Module (Alternate Connector)		
	198861D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	20mA AI Module with Conformal Coating		
NI-9205	151515F-01L 151515G-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, AI Module.	± 10 V to ±200 mV 16-Bit Analog Input, ±10V Ch-to-COM, 250Vrms CAT II Ch-to-Earth	-40°C ≤ Ta ≤ 70°C
	151515F-06L 151515G-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, AI Module (Alternate Connector)		
NI-9205 with DSUB	199015E-01L 199015F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, AI Module	± 10 V to ±200 mV 16-Bit Analog Input, ± 10 V CH to COM, 60Vdc CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ 70°C
	199015E-03L 199015F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, AI Module with Conformal Coating		
NI-9206	151516F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	AI Module.	16-Bit Analog Input for Fuel Cells, ± 10 V CH-to-COM, 600/400Vdc CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ 70°C
NI-9207	199272D-06L 199272E-06L 199272F-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	Combination voltage and current input C Series module	± 10Vdc Measurement Voltage, ± 21.5mA Measurement Current, ± 30 V Working Voltage, 250 Vrms CAT II Channel to Earth	-40°C ≤ Ta ≤ 70°C
NI-9207 with DSUB	199272D-01L 199272E-01L 199272F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, Analog Input, TC; Voltage	+/- 20 mA, +/- 10 V	-40°C ≤ Ta ≤ 70°C
	199272D-03L 199272F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, Analog Input, TC; Voltage with Conformal Coating		
NI-9208	198853D-06L 198853E-06L 198853F-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	C Series Current Input Module has 16 channels of ±21 mA input	± 21.5mA Measurement Current, ± 30 V Working Voltage, 250 Vrms CAT II Channel to Earth	-40°C ≤ Ta ≤ 70°C
NI-9208 with DSUB	198853D-01L 198853E-01L 198853F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, Analog Input, Current	+/- 20 mA	-40°C ≤ Ta ≤ 70°C
	198853D-03L 198853E-03L 198853F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, Analog Input, Current with Conformal Coating		
NI-9209	157754D-06L 157754E-06L 157754F-06L	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	157754D-01L 157754E-01L 157754F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	Voltage input C Series modules	60V CAT I Ch-to-Earth	-40°C ≤ Ta ≤ 70°C

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Model Name	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9210	142335C-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Channel C Series Temperature Input Model	250 V RMS, ± 80 mV Measurement Voltage, ± 1.5 V Channel to COM, 250V CAT II Channel to Earth ≤ 5000 m Altitude	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9210 with MINI TC	142129E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Channel C Series Temperature Input Model	± 80 mVdc Measurement Voltage, ± 30 V Working Voltage, 60Vdc CAT O Channel to Earth	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9211	198864F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH. Thermocouple Input Module	± 80 mV 24-Bit Thermocouple Input, ± 1.5 V Ch-to-COM, 250Vrms CAT II Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9212, TB-9212	155814D-01L with 155210B-01L 155210C-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	Channel-to-channel isolated thermocouple input module	Up to 5000m ± 78.125 mV 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	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
	155814D-01L with 141227B-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	Channel-to-channel isolated thermocouple input module (Reversed TC Connections)	Up to 5000m ± 78.125 mV 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	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9212, TB-9212 with Mini TC	155814D-01L with 159242E-01L	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	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9212, TB-9212	155814D-03L with 155210C-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	Channel-to-channel isolated thermocouple input module with Conformal Coating	Up to 5000m ± 78.125 mV 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	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9213	198854G-01L 198854F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Thermocouple Analog Input	± 78 mV	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
	198854G-03L 198854F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Thermocouple Analog Input with Conformal Coating		
	198854G-06L 198854F-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Thermocouple Analog Input (Alternate Connector)		
	198854G-08L 198854F-08L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Thermocouple Analog Input (Alternate Connector) with Conformal Coating		
NI-9214, TB-9214	150112G-01L and 150112F-01L with 198969E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Thermocouple Analog Input with Terminal Block	± 78 mV	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9215 with BNC	199269D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, ± 10 V, 16 Bit Analog Input	± 10 V 16-Bit Simultaneous Analog Input, ± 10 V AI+ to AI-, 60Vdc CAT I Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
NI-9215	198860D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH. Simultaneous Sampling Analog Input Module	± 10 V 16-Bit Simultaneous Analog Input, ± 10 V AI+ to AI-, 250Vrms CAT I Ch-to-Earth Isolation	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
	198860D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH. Simultaneous Sampling Analog Input Module (Alternate Connector)		
NI-9216	157270E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module	± 30 V Working Voltage, 250V CAT II Ch-to-Earth (Isolation Voltage)	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
	157270E-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module (alternate connector)		
NI-9216 with DSUB	158028E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module	± 30 V Working Voltage, 60V CAT I Channel to Earth, 1000V Withstand ≤ 3000 m Altitude; 860V Withstand ≤ 5000 m Altitude	$-40^{\circ}\text{C} \leq \text{Ta} \leq 70^{\circ}\text{C}$
	158028E-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module with Conformal Coating		

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Model Name	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9217	192547K-01L	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
NI-9218	155813F-01L	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	155761F-01L	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	198848H-01L	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
	198848H-04L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Universal AI with Conformal Coating		
	198848H-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Universal AI (Alternate Connector)		
NI-9220 with DSUB	153289F-01L	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
	153289F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel analog input modules with Conformal Coating		
NI-9220	143613C-06L	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
	153287F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 channel analog input modules (alternate connector)		
NI-9221	194932E-01L	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
	194932E-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, ±60V, 12 Bit Analog Input (Alternate Connector)		
NI-9221 with DSUB	194934E-01L	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
	194934E-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, 12 Bit Analog Input Module with Conformal Coating		
NI-9222	198847F-03L	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	156350D-02L	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	156350E-01L	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	198847F-01L	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	157994C-02L	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	157643E-01L	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
	157643E-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module (alternate connector)		
NI-9226 with DSUB	158028E-02L	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
	158028E-04L	Automatic Data Processing Machine Unit (Signal Convert Board)	Temperature Input module with Conformal Coating		
NI-9228	157994C-01L	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
	157994C-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel AI module with Conformal Coating		

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Model Name	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9229	198858H-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	60 Vdc	-40°C ≤ Ta ≤ 70°C
	198858H-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input with Conformal Coating		
NI-9229 with BNC	153111E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	60 Vdc	-40°C ≤ Ta ≤ 70°C
NI-9230	158070D-01L 158070E-01L 158070F-01L	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
	158070D-03L 158070E-03L 158070F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	3-channel C Series dynamic signal acquisition modules with Conformal Coating		
NI-9230 with BNC	140553C-01L 140553D-01L 140553E-01L	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	145465B-01L	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	199911D-01L 199911E-01L 199911F-01L	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
	199911D-03L 199911E-03L 199911F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	IEPE and AC/DC Analog Input Module with Conformal Coating		
NI-9232 with BNC	140188C-01L 140188D-01L 140188E-01L	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	195551E-01L	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
	195551E-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Channel, ± 5 V, 24-Bit IEPE Analog Input Module with Conformal Coating		
	195551E-04L	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Channel, ± 5 V, 24-Bit IEPE Analog Input Module (OEM)		
NI-9235	199940D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Analog Input Module	3.3 Vrms	-40°C ≤ Ta ≤ 70°C
	199940D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Analog Input Module (Alternate Connector)		
NI-9236	199954D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Analog Input Module	3.3 Vrms	-40°C ≤ Ta ≤ 70°C
	199954D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Analog Input Module (Alternate Connector)		
	199954D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Analog Input Module with Conformal Coating		
NI-9237	198859F-01L	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	198855E-01L	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
	198855E-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH 24-Bit Half/Full Bridge Analog Input Module Vdc AI Bridge with Conformal Coating		
NI-9238	156304D-01L	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	198857H-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	10 Vdc	-40°C ≤ Ta ≤ 70°C
	198857H-04L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input with Conformal Coating		

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	198857H-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input (OEM)		
NI-9239 with BNC	153112E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, Analog Input	10 Vdc	-40°C ≤ Ta ≤ 70°C
NI-9242	155628E-01L 155628F-01L	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
NI-9244	155386D-01L 155386E-01L	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 ≤ 2000 m Altitude, 400 V CAT II or 300 V CAT III Channel to Earth ≤ 5000 m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9250 with BNC	141912D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel AI module	± 5 V input, ± 30 V overvoltage, 5,000 m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9251 with mini XLR	157874E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	2-channel, 24-bit differential analog input module	3Vrms, ≤5000m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9252	147098B-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog input module	±10 V 24-bit simultaneous analog input. 250 Vrms CAT II Channel to Earth 60 VDC CAT O Ch-to-earth	-40°C ≤ Ta ≤ 70°C
NI-9252 with DSUB	130282B-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog input module	±10 V 24-bit simultaneous analog input. 250 Vrms CAT II Channel to Earth 60 VDC CAT O Ch-to-earth	-40°C ≤ Ta ≤ 70°C
NI-9253	147075B-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog input module	±20 mA 24-bit simultaneous analog input	-40°C ≤ Ta ≤ 70°C
	147075B-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel analog input module with Conformal Coating	250 Vrms CAT II Ch-to-Earth Isolation	
NI 9326	130079B-01L	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°C ≤ Ta ≤ 70°C
	130079B-02L	Industrial Network Switch	6-Ch Zero Crossing C-Series Frequency Input Module with Conformal Coating		
NI 9381 with DSUB	153475D-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	20-channel 0-5V MIO modules	0-5V Working Voltage	-40°C ≤ Ta ≤ 70°C
	153475E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	20-channel 0-5V MIO modules with Conformal Coating		
NI 9775	141084D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 channel, 20 MS/s, 14 Bit Digitizer C Series Module	± 10 Vdc Measurement Voltage, ± 30 V Working Voltage, Non-Isolated Module	-40°C ≤ Ta ≤ 70°C
NI-9260 with BNC	157152D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel analog voltage output modules	±3Vrms output, 7mA ≤ 5000m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9260 with miniXLR	157151D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	2 channel analog voltage output modules	±3Vrms output, 7mA ≤ 5000m Altitude	-40°C ≤ Ta ≤ 70°C
NI-9262 with DSUB	142316C-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	6 channel AO module	60Vdc CAT I (O) Channel to Earth Iso	-40°C ≤ Ta ≤ 70°C
	142316C-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	6 channel AO module with Conformal Coating		
NI-9263	198856E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Analog Voltage Output Module	±10.7 V dc	-40°C ≤ Ta ≤ 70°C
	198856E-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Analog Voltage Output Module (Alternate Connector)		
NI-9264	199268D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, ± 10 V, 16-Bit Analog Voltage Output Module	±10 V Working Voltage 10 V CAT I Channel to COM	-40°C ≤ Ta ≤ 70°C

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	199268D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, ± 10 V, 16-Bit Analog Voltage Output Module with Conformal Coating		
	199268D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, ± 10 V, 16-Bit Analog Voltage Output Module (Alternate Connector)		
	199268D-07L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, ± 10 V, 16-Bit Analog Voltage Output Module (Alternate Connector) with Conformal Coating		
NI-9264 with DSUB	198844D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, ± 10 V, 16-Bit Analog Output Module	+/- 10 V	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
	198844D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16-Channel, ± 10 V, 16-Bit Analog Output Module with Conformal Coating		
NI-9265	198845E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, 16 Bit Analog Current Output Module	20mA 16-Bit Analog Output, 36V Vs-up-to-COM, 250Vrms CAT II Signal-to-Earth Isolation	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
	198845E-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, 16 Bit Analog Current Output Module (OEM)		
	198845E-04L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, 16 Bit Analog Current Output Module with Conformal Coating		
	198845E-05L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, 16 Bit Analog Current Output Module (Alternate Connector)		
	198845E-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, 16 Bit Analog Current Output Module (Alternate Connector)		
	198845E-07L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH, 16 Bit Analog Current Output Module (OEM) with Conformal Coating		
NI-9266	141120C-01L	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	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
NI-9266 with DSUB	143005C-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel AO module	60 VDC, CAT I, 1000 Vrms withstand.	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
	143005D-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 channel AO module with Conformal Coating		
NI-9269	198920G-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Channel, ± 10 V, 16-Bit, Simultaneous, Channel-to-Channel Isolated Analog Voltage Output Module	± 10.5 V Working Voltage 60 Vdc CAT I Channel to Earth	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
	198920G-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	4-Channel, ± 10 V, 16-Bit, Simultaneous, Channel-to-Channel Isolated Analog Voltage Output Module with Conformal Coating		
NI 9350	141198D-01L	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	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
NI 9351	141199C-01L	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	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
NI-9361	156449E-01L 156449F-01L	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, Vs-up to Earth \leq Altitude 5000m	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
	156449E-03L 156449F-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	8-Channel Differential Counter Input Module with 30V input max with Conformal Coating		
NI-9375	198918F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH DIO	30 V dc DIO to COM	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
	198918F-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH DIO (Alternate Connector)		

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Model Name	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
NI-9375 with DSUB	199270D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 Channel Digital Input / Output Module	6-30 Vdc, 250 mA	-40°C ≤ Ta ≤ 70°C
	199270D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 Channel Digital Input / Output Module with Conformal Coating		
NI-9401	152182D-01L	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°C ≤ Ta ≤ 70°C
	152182D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, TTL Digital I/O with Conformal Coating		
NI-9402	196376F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 CH Digital Input/Output Module	LVTTTL Input/Output	-40°C ≤ Ta ≤ 70°C
NI-9403 with DSUB	199027F-03L 199027E-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	32-Channel, ± 5 V, 32-Bit, TTL Digital Input/Output Module	5 Vdc Working Voltage 60 Vdc CAT I Channel to Earth	-40°C ≤ Ta ≤ 70°C
	199027F-01L 199027E-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32-Channel, ± 5 V, 32-Bit, TTL Digital Input/Output Module with Conformal Coating		
NI-9411	198846D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	6 CH. Differential Digital Input Module	±24V Ch-to-COM, 30V Vsup-to-COM, 60 Vdc CAT I Ch-to-Earth Isolation	-40°C ≤ Ta ≤ 70°C
	198846D-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	6 CH. Differential Digital Input Module with Conformal Coating		
NI-9421	157739D-01L	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°C ≤ Ta ≤ 70°C
	157739D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Low Speed Digital Input Module (Alternate Connector)		
NI-9421 with DSUB	151523E-01L	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°C ≤ Ta ≤ 70°C
	151523E-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH, 24V Digital Input with Conformal Coating		
NI-9423	157740D-01L	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 CAT II Ch-to-Earth Isolation	-40°C ≤ Ta ≤ 70°C
	157740D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. High Speed Digital Input Module (Alternate Connector)		
NI-9425	199019E-06L	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	199019G-01L	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
	199019G-04L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, 24V Digital Input with Conformal Coating		
NI-9426 with DSUB	150896D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH Digital Input	30 V dc	-40°C ≤ Ta ≤ 70°C
	150896D-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH Digital Input with Conformal Coating		
NI 9467	151799G-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	GPS Sync Module with Antenna	5VDC, 30mA	-40°C ≤ Ta ≤ 70°C
NI 9469	199878D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	Timing and Sync Module	-1.4-3.8VDC Working Voltage	-40°C ≤ Ta ≤ 70°C
	199878D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	Timing and Sync Module with Conformal Coating		
NI-9470	147898B-01L	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
	147898B-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	8-Ch Variable Digital Output with Current Readback with Conformal Coating		
NI-9472	199364D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Digital Output Module	24V Sourcing Digital Output, 30 V Vsup-to-COM,	-40°C ≤ Ta ≤ 70°C

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	199364D-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Digital Output Module (OEM)	250 Vrms CAT II Ch-to-Earth Isolation	
	199364C-07L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Digital Output Module with Conformal Coating		
	199364D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Digital Output Module (Alternate Connector)		
NI-9472 with DSUB	191462G-01L	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	151530D-01L	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
	151530D-06L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH. Digital Output Module (Alternate Connector)		
NI-9475 with DSUB	151531D-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Sourcing Digital Output	60 V dc	-40°C ≤ Ta ≤ 70°C
	151531D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	8 CH Sourcing Digital Output with Conformal Coating		
NI-9476	199018F-06L	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	199018G-02L	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
	199018G-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32 CH, 24V Digital Output with Conformal Coating		
NI-9477	199017F-02L	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
	199017F-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	32-Ch Sinking Digital Output Module with Conformal Coating		
NI-9478 with DSUB	198852D-01L	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
	198852D-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	16 CH Sinking Digital Output with Conformal Coating		
NI-9485	151231D-01L	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
	151231D-02L	Automatic Data Processing Machine Unit (Signal Convert Board)	SSR Module with Conformal Coating		
NI 9770	156828E-01L	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	148208C-01L	Solid State Drive	Solid state drive expansion module, 64GB	4.5W max, 900 mA @ 5V	-40°C ≤ Ta ≤ 70°C
	148208C-02L	Solid State Drive	Solid state drive expansion module, 480GB		
	148208C-11L	Solid State Drive	Solid state drive expansion module, No drive		
cRIO-9805	148941C-01L	Industrial Network Switch	4-port 802.1AS Ethernet Switch module	9-30V, 5W, CAT I	-40°C ≤ Ta ≤ 70°C
NI 9853	199016G-02L or 199016H-02L	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
	199016G-01L or 199016H-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	2 Port High Speed CAN with Conformal Coating		

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NI 9860	157128F-02L	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
	157128F-12L	Automatic Data Processing Machine Unit (Signal Convert Board)	Multi-port dongled module; NI-XNET Hardware Selectable Interface with Conformal Coating		
NI 9862	151837J-01L	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	151837J-71L	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	198850G-01L 198850H-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Port RS485 Serial Module	Communication	-40°C ≤ Ta ≤ 70°C
	198850G-03L 198850H-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Port RS485 Serial Module with Conformal Coating		
NI 9871	198851G-01L 198851H-01L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Port RS485 Serial Module	Communication	-40°C ≤ Ta ≤ 70°C
	198851G-03L 198851H-03L	Automatic Data Processing Machine Unit (Signal Convert Board)	4 Port RS485 Serial Module with Conformal Coating		
NI 9881	151838J-81L	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
	151838J-82L	Automatic Data Processing Machine Unit (Signal Convert Board)	1-Port High Speed xNET CAN Modules with Conformal Coating		
TRC-8542	154078E-01L	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
	154078F-01L		NI-XNET CAN HS/FD SIC Communication 1-port transceiver cable		
	154078E-12L	Automatic Data Processing Machine Unit (Signal Convert Module)	NI-XNET CAN HS/FD Communication 1-port transceiver cable with Conformal Coating		
TRC-8543	154078E-02L	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
	154078F-02L		NI-XNET CAN XS (LS/FT, HS/FD) SIC Communication 1-port transceiver cable		
	154078E-22L	Automatic Data Processing Machine Unit (Signal Convert Module)	NI-XNET CAN XS (LS/FT, HS/FD) Communication 1-port transceiver cable with Conformal Coating		
TRC-8546	154081F-02L	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
	154081F-12L	Automatic Data Processing Machine Unit (Signal Convert Module)	NI-XNET LIN Communication 1-port transceiver cable with Conformal Coating		

Routine tests

Routine tests are not required.

[16]

Descriptive Documents

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

[17]

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.

[13]

[14]

Schedule
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[18]

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.