



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx UL 21.0013X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2022-12-13)
Date of Issue:	2023-03-01		Issue 1 (2022-06-16)
Applicant:	National Instruments Corporation 11500 N. Mopac Expressway Austin, TX 78759 United States of America		Issue 0 (2021-05-27)
Equipment:	Modules, Controllers, Backplanes, Chassis, and Peripheral Equipment, Models NI 9220 with DSUB, NI 9220, NI 9242, NI 9210 with MINI TC, NI 9250 with BNC, cRIO-9045. See Annex for additional Model and Part. No. information		
Optional accessory:			
Type of Protection:	Increased Safety "ec"		
Marking:	Ex ec IIC T4 Gc		
	-40°C ≤ Ta ≤ +70°C		
	-20°C ≤ Ta ≤ +55°C		
	0°C ≤ Ta ≤ +55°C		
	Please see Annex for additional information.		

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **National Instruments Corporation**
11500 N. Mopac Expressway
Austin, TX 78759
United States of America

Manufacturing locations:	National Instruments Corporation 11500 N. Mopac Expressway Austin, TX 78759 United States of America	National Instruments Corporation 4031 Debrecen 1/A Hatar Street Hungary
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR21.0013/00
US/UL/ExTR21.0013/03

US/UL/ExTR21.0013/01

US/UL/ExTR21.0013/02

Quality Assessment Report:

US/UL/QAR14.0013/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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 IEC 60079-0
- The product shall only be used in an area of not more than Pollution Degree 2, as defined in IEC 60664-1.
- The enclosure must have a door or cover accessible only by use of a tool.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Addition of Models and updates to drawings.

Issue 2: Addition of conformal coating part number for NI 9212 and TB-9212. Alternate component addition for NI 9201, 9222 and NI 9775.

Issue 3: Addition of alternate part numbers and correction of typos in scheduled drawing list.

Annex:

[Annex to IECEx UL 21.0013X Issue 3.pdf](#)



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TYPE DESIGNATION AND PARAMETERS RELATING TO THE SAFETY

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



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Model Name	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
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
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	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	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	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	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	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	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	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	Controller of Automatic Data Processing Machine	Embedded CompactRIO Controller with 1.3 GHz dual core Real Time Processor and Reconfigurable FPGA with Conformal Coating		



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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
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



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	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
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 to +70°C
	194922E-06L	Automatic Data Processing Machine Unit(Signal Convert Board)	8 CH, ±10V, 12 Bit Analog Input (Alternate Connector)		



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	194922E-02L	Automatic Data Processing Machine Unit(Signal Convert Board)	8 CH, $\pm 10V$, 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	$\pm 10V$ 12-Bit Analog Input, $\pm 10V$ Ch-to-COM, 60Vdc CAT I Ch-to-Earth Isolation	-40 °C to +70°C
NI-9202	141054C-01L	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 $\leq$ Tamb $\leq$ 70 deg. 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 $\leq$ Tamb $\leq$ 70 deg. 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.	$\pm 20mA$ 16-Bit Analog Input, 250Vrms CAT II Ch-to-Earth Isolation	-40 °C to +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.	$\pm 10 V$ to $\pm 200 mV$ 16-Bit Analog Input, $\pm 10V$ Ch-to-COM, 250Vrms CAT II Ch-to-Earth	-40 °C to +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	$\pm 10 V$ to $\pm 200 mV$ 16-Bit Analog Input,, $\pm 10 V$ CH to COM, 60Vdc CAT I Ch-to-Earth Isolation	-40 °C to +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, $\pm 10 V$ CH-to-COM, 600/400Vdc CAT I Ch-to-Earth Isolation	-40 °C to +70°C
NI-9207	199272D-06L 199272E-06L	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 $\leq$ Tamb $\leq$ 70 deg. C



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NI-9207 with DSUB	199272D-01L 199272E-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	16-Channel, Analog Input, TC; Voltage	+/- 20 mA, +/- 10 V	-40 °C to +70°C
	199272D-03L 199272E-03L	Automatic Data Processing Machine Unit(Signal Convert Board)	16-Channel, Analog Input, TC; Voltage with Conformal Coating		
NI-9208	198853D-06L 198853E-06L	Automatic Data Processing Machine Unit(Signal Convert Board)	C Series Current Input Module has 16 channels of ± 21 mA input	± 21.5 mA Measurement Current, ± 30 V Working Voltage, 250 Vrms CAT II Channel to Earth	$-40 \leq T_{amb} \leq 70$ deg. C
NI-9208 with DSUB	198853D-01L 198853E-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	16-Channel, Analog Input, Current	+/- 20 mA	-40 °C to +70°C
	198853D-03L 198853E-03L	Automatic Data Processing Machine Unit(Signal Convert Board)	16-Channel, Analog Input, Current with Conformal Coating		
NI-9209	157754D-06L 157754E-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	$-40 \leq T_{amb} \leq 70$ deg. C
NI-9209 with DSUB	157754D-01L 157754E-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	Voltage input C Series modules	60V CAT I Ch-to-Earth	$-40 \leq T_{amb} \leq 70$ deg. C
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	$-40 \leq T_{amb} \leq 70$ deg. 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, 60 Vdc CAT O Channel to Earth	$-40 \leq T_{amb} \leq 70$ deg. 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 °C to +70°C
NI-9212, TB-9212	155814D-01L with 155210B-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	$-40 \leq T_{amb} \leq 70$ deg. 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	$-40 \leq T_{amb} \leq 70$ deg. 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	$-40 \leq T_{amb} \leq 70$ deg. C



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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 ±78.125mV 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 ≤ Tamb ≤ 70 deg. C
NI-9213	198854F-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	16 CH Thermocouple Analog Input	±78 mV	-40 °C to +70°C
	198854F-03L	Automatic Data Processing Machine Unit(Signal Convert Board)	16 CH Thermocouple Analog Input with Conformal Coating		
	198854F-06L	Automatic Data Processing Machine Unit(Signal Convert Board)	16 CH Thermocouple Analog Input (Alternate Connector)		
	198854F-08L	Automatic Data Processing Machine Unit(Signal Convert Board)	16 CH Thermocouple Analog Input (Alternate Connector) with Conformal Coating		
NI-9214, TB-9214	150112F-01Lwith 198969E-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	16 CH Thermocouple Analog Input with Terminal Block	±78 mV	-40 °C to +70°C
NI-9215 with BNC	199269D-01L	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 to +70°C
NI-9215	198860D-01L	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 to +70°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 ≤ Tamb ≤ 70 deg. 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	± 30V Working Voltage, 60V CAT I Channel to Earth, 1000V Withstand ≤3000m Altitude; 860V Withstand ≤ 5000m Altitude	-40 ≤ Tamb ≤ 70 deg. C
	158028E-03L	Automatic Data Processing Machine Unit(Signal Convert Board)	Temperature Input module with Conformal Coating		
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 to +70°C



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Model Name	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. 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 to +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 to +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 to +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 to +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 ≤ Tamb ≤ 70 deg. C
NI-9223 with BNC	156350D-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	4-channel AI module	±10V 60VDC CAT I Ch-to-Grd, Ch-to-Ch	-40 ≤ Tamb ≤ 70 deg. C



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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 to +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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. C
	157994C-03L	Automatic Data Processing Machine Unit(Signal Convert Board)	8 channel AI module with Conformal Coating		
NI-9229	198858H-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	4 CH, Analog Input	60 Vdc	-40 °C to +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 to +70°C
NI-9230	158070D-01L 158070E-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 ≤ Tamb ≤ 70 deg. C
	158070D-03L 158070E-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	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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. C



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NI-9232	199911D-01L 199911E-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 to +70°C
	199911D-03L 199911E-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	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 ≤ Tamb ≤ 70 deg. 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 to +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 to +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 to +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 to +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 to +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		



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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 $\leq$ 2000 m Altitude, 60 V CAT I Channel to Earth and Channel to Channel $\leq$ 5000 m Altitude	$-40 \leq T_{amb} \leq 70$ deg. C
NI-9239	198857H-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	4 CH, Analog Input	10 Vdc	-40°C to $+70^{\circ}\text{C}$
	198857H-04L	Automatic Data Processing Machine Unit(Signal Convert Board)	4 CH, Analog Input with Conformal Coating		
	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 to $+70^{\circ}\text{C}$
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 $\leq$ 5000 m Altitude	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
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 $\leq$ 2000 m Altitude, 400 V CAT II or 300 V CAT III Channel to Earth $\leq$ 5000 m Altitude	$-40 \leq T_{amb} \leq 70$ deg. 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	$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$
NI-9251 with mini XLR	157874E-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	2-channel, 24-bit differential analog input module	3Vrms, ≤ 5000 m Altitude	$-40 \leq T_{amb} \leq 70$ deg. 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 to $+70^{\circ}\text{C}$
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 to $+70^{\circ}\text{C}$
NI-9253	147075B-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	8 channel analog input module	± 20 mA 24-bit simultaneous analog input 250 Vrms CAT II Ch-to-	-40°C to $+70^{\circ}\text{C}$



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	147075B-02L	Automatic Data Processing Machine Unit(Signal Convert Board)	8 channel analog input module with Conformal Coating	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 to +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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. 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 to +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 to +70°C
	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)		



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	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°C to $+70^{\circ}\text{C}$
	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 Vsup-to-COM, 250Vrms CAT II Signal-to-Earth Isolation	-40°C to $+70^{\circ}\text{C}$
	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	$-40 \leq T_{\text{amb}} \leq 70^{\circ}\text{C}$
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.	$-40 \leq T_{\text{amb}} \leq 70^{\circ}\text{C}$
	143005D-02L	Automatic Data Processing Machine Unit(Signal Convert Board)	8 channel AO module with Conformal Coating		
NI-9269	198920F-01L 198920F-03L	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°C to $+70^{\circ}\text{C}$
		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		



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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 ≤ Tamb ≤ 70 deg. 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 ≤ Tamb ≤ 70 deg. C
NI-9361	156449D-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, Vsup to Earth ≤ Altitude 5000m	-40 ≤ Tamb ≤ 70 deg. C
	156449D-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 °C to +70°C
	198918F-06L	Automatic Data Processing Machine Unit(Signal Convert Board)	32 CH DIO (Alternate Connector)		
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 to +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 to +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 to +70°C
NI-9403 with DSUB	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 to +70°C
	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 CATI Ch-to-Earth Isolation	-40 °C to +70°C
	198846D-02L	Automatic Data Processing Machine Unit(Signal Convert Board)	6 CH. Differential Digital Input Module with Conformal Coating		



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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 to +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 to +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 CATII Ch-to-Earth Isolation	-40 °C to +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 ≤ Tamb ≤ 70 deg. 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 to +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 to +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 to +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 to +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.	-40°C to +70°C



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	147898B-02L	Automatic Data Processing Machine Unit(Signal Convert Board)	8-Ch Variable Digital Output with Current Readback with Conformal Coating	Output: 3A/ Two channels; 1.6A/All Channels	
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, 250 Vrms CAT II Ch-to-Earth Isolation	-40 °C to +70°C
	199364D-02L	Automatic Data Processing Machine Unit(Signal Convert Board)	8 CH. Digital Output Module (OEM)		
	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 to +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 to +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 to +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 ≤ Tamb ≤ 70 deg. 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 to +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 to +70°C
	199017F-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	32-Ch Sinking Digital Output Module with Conformal Coating		



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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 to +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	-40 °C to +70°C
	151231D-02L	Automatic Data Processing Machine Unit(Signal Convert Board)	SSR Module with Conformal Coating	60Vdc CAT, I, Ch-to-Earth Iso, altitudes ≤ 5000m, 60Vdc Ch-to-Ch Iso, altitudes ≤ 5000m	
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 ≤ Tamb ≤ 70 deg. C
cRIO-9803	148208C-01L	Solid State Drive	Solid state drive expansion module, 64GB	4.5W max, 900 mA @ 5V	-40 ≤ Tamb < 70 deg. 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 to +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 to +70°C
	199016G-01L or 199016H-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	2 Port High Speed CAN with Conformal Coating		
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 ≤ Tamb ≤ 70 deg. 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 to +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 to +70°C
NI 9870	198850F-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	4 Port RS485 Serial Module	Communication	-40 °C to +70°C



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Model Name	Model P/N	Product Type	Module Description	Electrical ratings	Ambient temperature range
	198850F-03L	Automatic Data Processing Machine Unit(Signal Convert Board)	4 Port RS485 Serial Module with Conformal Coating		
NI 9871	198851F-01L	Automatic Data Processing Machine Unit(Signal Convert Board)	4 Port RS485 Serial Module	Communication	-40 °C to +70°C
	198851F-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 to +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 ≤ Tamb ≤ 70 deg. C
	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 ≤ Tamb ≤ 70 deg. C
	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 ≤ Tamb ≤ 70 deg. C
	154081F-12L	Automatic Data Processing Machine Unit (Signal Convert Module)	NI-XNET LIN Communication 1-port transceiver cable with Conformal Coating		



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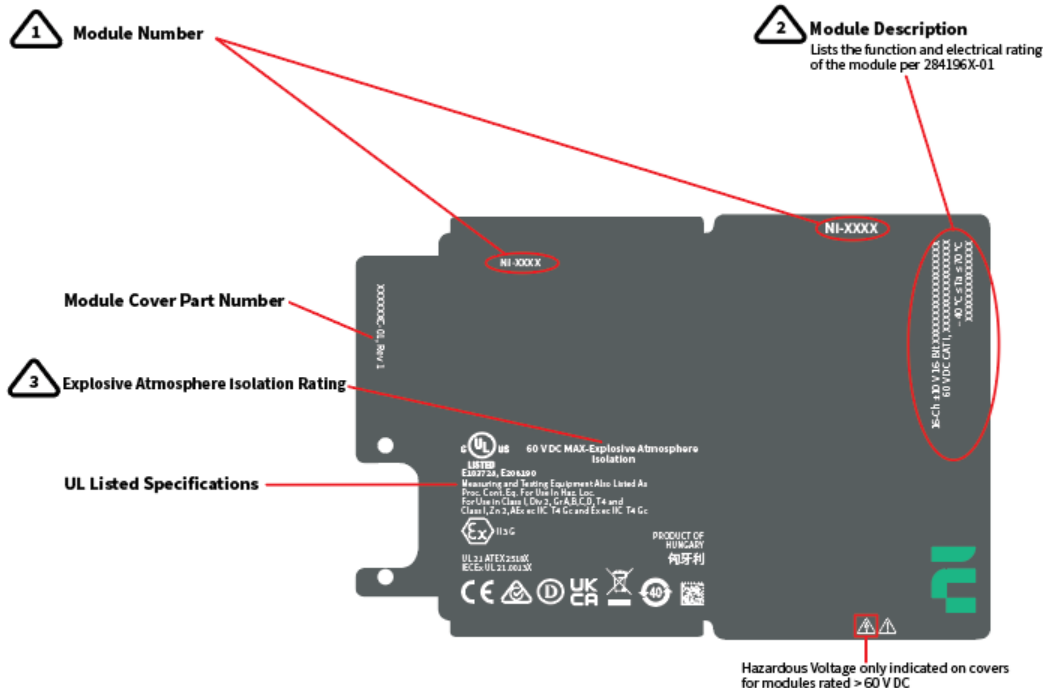
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MARKING

Marking has to be readable and indelible; it has to include the following indications

For all models except for TRC-XXXX, cRIO-90xx, NI-91xx, cDAQ-91xx, series and cRIO-9803 & cRIO-9805: (284196C-02)



Part number/serial number label (L00751A-0x, where 0x indicates Korean certification, Conformal Coating, CCC, etc.)

PN: PART NO. SN:1111111



HQ: 11500 N MOPAC EXP
AUSTIN, TX



MIC/KCC NO.

PRODUCT OF
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IECEx Certificate of Conformity

Certificate No.: IECEx UL 21.0013X

Issue No.: 3

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For all cRIO-905x products – (L00742A-0X, where X indicates proper temperature range):

M/N: MODEL NO. 1

$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$



UL 21 ATEX 2518X
IECEx UL 21.0013X
II 3G Ex ec IIC T4 Gc

HQ: 11500 N MOPAC EXPW
AUSTIN, TX



MIC/KCC NO.

M/N: MODEL NO. 1

$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$



UL 21 ATEX 2518X
IECEx UL 21.0013X
II 3G Ex ec IIC T4 Gc

HQ: 11500 N MOPAC EXPW
AUSTIN, TX



MIC/KCC NO.

For cRIO-9803, cRIO-9805, and all cRIO-90xx, NI-91xx, and cDAQ-91xx series except cRIO-905x - (L00407C-0X, where X indicates the proper temperature range):

M/N: MODEL NO. 1

$0^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$



UL 21 ATEX 2518X
IECEx UL 21.0013X
II 3G Ex ec IIC T4 Gc

HQ: 11500 N MOPAC EXPV
AUSTIN, TX



MIC/KCC NO.

E208190, E183728



Measuring and Testing Equipment Also Listed As Proc.
Cont. Eq. For Use in Haz. Loc., Cl, D2, Gr A-D, T4
and Cl, Z2, AEx ec IIC T4 Gc and Ex ec IIC T4 Gc

For all cRIO-90xx, NI-91xx, and cDAQ-91xx series except NI-9157 & NI-9159 - (L00741A-0X, where X indicates number of MAC addresses (0, 1, or 2), CCC and Conformal Coating status:

M/N: MODEL NO. 1

MAC 1: MAC NO. 1

P/N: PART NO.

S/N: 1111111



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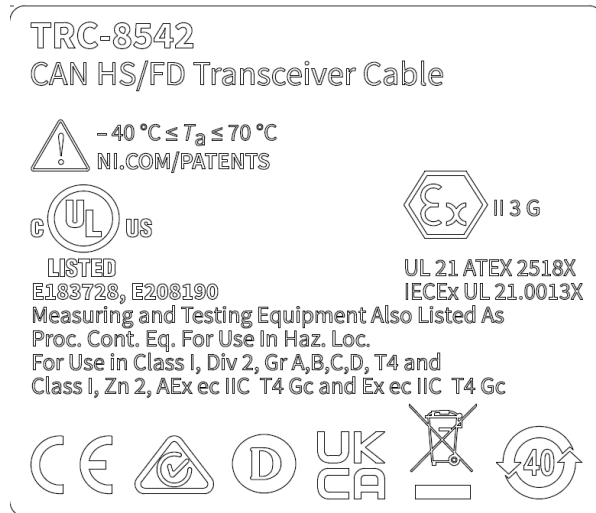
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Certificate No.: IECEx UL 21.0013X

Issue No.: 3

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For TRC-854x products –similar to the one shown below except for Model Number and Product Description:



TRC-854x products also use label L00751A-0x (see above) for address and serial number.

cDAQ-9171 Label (L00328C-01)

