



Technical Sales
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NI 9211 Measurement System

4 Ch Thermocouple Input for USB, Ethernet, or Wi-Fi

- Bundle includes measurement module and 1-slot NI CompactDAQ chassis
- USB, Ethernet, and 802.11 Wi-Fi connectivity
- 4 thermocouple or ± 80 mV analog inputs
- 24-bit resolution; 50/60 Hz noise rejection
- NIST-traceable calibration
- Hot-swappable operation



Overview

The NI 9211 Measurement System measures 4 thermocouple channels at 14 S/s with 24-bit resolution, sending data to a host PC over USB, Ethernet or 802.11 Wi-Fi.

Measurement Bundle Overview

The hardware for an NI CompactDAQ single measurement bundle consists of a USB, Ethernet, or 802.11 Wi-Fi chassis and one of over 50 NI C Series measurement-specific modules. These small rugged bundles are ideal for portable or distributed measurements.

Chassis

The chassis controls the timing for the module and handles communication with the PC over the USB, Ethernet, or 802.11 Wi-Fi bus. Additionally, all NI CompactDAQ chassis include four counter/timers that you can access through a digital I/O module like the NI 9401.

Module

The NI 9211 thermocouple input module for use with NI CompactDAQ and CompactRIO chassis includes a 24-bit delta-sigma analog-to-digital converter, antialiasing filters, open-thermocouple detection, and cold-junction compensation for high-accuracy thermocouple measurements. The NI 9211 contains NIST-traceable calibration and channel-to-earth ground double isolation barrier for safety, noise immunity, and high-common-mode voltage range.

Specifications

Specifications Documents

- Specifications (3)

Specifications Summary

General

Product Name

NI 9211 Measurement Bundle

Product Family	Industrial I/O
Form Factor	Ethernet , USB , Wireless , CompactDAQ
Part Number	000000-00
Operating System/Target	Real-Time , Windows
Measurement Type	Thermocouple , Voltage , Temperature
RoHS Compliant	Yes
Signal Conditioning	Cold-junction compensation
Analog Input	
Channels	4 , 0
Single-Ended Channels	0
Differential Channels	4
Resolution	24 bits
Sample Rate	14 S/s
Max Voltage	80 mV
Maximum Voltage Range	-80 mV , 80 mV
Minimum Voltage Range	-80 mV , 80 mV
Simultaneous Sampling	No
Analog Output	
Channels	0
Digital I/O	
Bidirectional Channels	0
Input-Only Channels	0
Output-Only Channels	0
Number of Channels	0
Counter/Timers	
Counters	0
Physical Specifications	
Length	9 cm
Width	2.3 cm
I/O Connector	Screw terminals
Minimum Operating Temperature	-40 °C

Maximum Operating Temperature	70 °C
Minimum Storage Temperature	-40 °C
Maximum Storage Temperature	85 °C

Timing/Triggering/Synchronization

Triggers cDAQ Chassis	No
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Pricing

NI 9211

Bundle Contents

Estimated Shipping Days : 10 - 15 Price : \$ 607

✓ Choose a communication method between your PC and module.

USB Option

NI cDAQ-9171, 1-Slot USB Chassis 781425-01 (Included in price)

Ethernet Option

NI cDAQ-9181, 1-Slot Ethernet Chassis 781496-01 Add \$ 100

NI cDAQ-9181 CompactDAQ Chassis (1-SLOT Ethernet),
Conformal Coat 782052-01 Add \$ 240

WI-FI Option

NI cDAQ-9191, 1-Slot WI-FI Chassis (U.S.) 781497-01 Add \$ 200

NI cDAQ-9191, 1-Slot WI-FI Chassis (International) 781497-02
Add \$ 200

✓ Analog Input Module

NI 9211 4-Ch ±80 mV, 14 S/s, 24-Bit TC and Diff AI 779001-01
(Included in price)

✓ Power

Power Cord, AC, U.S., 120 VAC, 2.3 meters 763000-01
(Included in price)

Power Cord, 240V, 10A, North American 763068-01 Add \$ 19

✓ Software

LabVIEW Full Development System, Windows, English, Include 1
Year SSP 776670-35 Add \$ 2,699

Estimated Shipping Days : 10 - 15 Price : \$ 607

Qty: 1

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Resources

Additional Product Information

- Manuals (16)
- Dimensional Drawings (4)
- Product Certifications (4)

Related Information

- Videos: Learn How to Take Your First Measurement With NI CompactDAQ Out of the Box