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NI cDAQ-9139

NI CompactDAQ Stand-Alone Chassis, Core i7 1.33 GHz, 8-slot

1.33 GHz dual-core Intel Core i7 processor, 32 GB nonvolatile storage, 2 GB DDR3 800 MHz RAM

More than 50 hot-swappable I/O modules with integrated signal conditioning

4 general-purpose 32-bit counter/timers built into chassis (access through digital module)

Run up to 7 hardware-timed analog I/O, digital I/O, or counter/timer operations simultaneously

4 USB Hi-Speed, 2 Gigabit Ethernet, 2 serial, and 1 MXI-Express port for connectivity and expansion

Measure in minutes with NI-DAQmx software and automatic code generation using the DAQ Assistant



Overview

The high-performance stand-alone NI cDAQ-9139 eight-slot chassis includes Intel Core i7 dual-core processing and 32 GB nonvolatile storage for advanced data-logging and embedded monitoring applications. The processing power of the cDAQ-9139 makes it well suited to perform the online processing tasks required by complex applications such as image detection and machine life-cycle prognostics. You have the option to use a Microsoft Windows Embedded Standard 7 (WES7) or LabVIEW Real-Time OS. Choose WES7 on the cDAQ-9139 to take advantage of the extensive Windows ecosystem of software and display capabilities made possible by LabVIEW software. LabVIEW Real-Time is recommended for long term reliability and headless operation. The high-performance stand-alone cDAQ-9139 also offers a wide array of standard connectivity and expansion options, including USB, Ethernet, serial, MXI-Express, and VGA display output.

Combine the cDAQ-9139 with up to eight NI C Series I/O modules for a custom analog input, analog output, digital I/O, counter/timer, and CAN measurement and logging system. Modules are available for a variety of sensor measurements including thermocouples, RTDs, strain gages, load and pressure transducers, torque cells, accelerometers, flow meters, and microphones. NI CompactDAQ systems combine sensor measurements with voltage, current, and digital signals to create custom, mixed-measurement systems within a single system. The cDAQ-9139 has four 32-bit general-purpose counter/timers built in. You can access these counters through an installed, hardware-timed digital module such as the NI 9401 or NI 9402 for applications that involve quadrature encoders, PWM, event counting, pulse train generation, and period or frequency measurement.

NI-DAQmx driver software is shipped with every chassis and includes the following:

- API for LabVIEW, ANSI C/C++, C#, and Visual Basic .NET
- DAQ Assistant code generation for NI LabVIEW, LabWindows™/CVI, and Measurement Studio
- Example programs for all supported languages
- NI Measurement & Automation Explorer (MAX) for system configuration and test

The cDAQ-9139 WES7 option will ship preinstalled with the latest LabVIEW evaluation version and NI-DAQmx.

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Specifications

Specifications Documents

Specifications

Specifications Summary

General

Product Name	cDAQ-9139
Form Factor	CompactDAQ
Product Type	Chassis , Controller (Computing Device)
Part Number	782325-01
Operating System/Target	Windows Embedded Standard 7
LabVIEW RT Support	Yes
Product Certifications	RoHS , ICES , UL - Product Safety , WEEE , CE , Demko or VDE , FCC
RoHS Compliant	Yes
Storage	32 GB

Chassis

Power Supply	DC
Number of Slots	8

Counter/Timers

Counters	4
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Shock and Vibration

Random Operating Frequency Range	10 Hz , 500 Hz
Random Vibration	5 g
Sinusoidal Operating Frequency Range	10 500
Sinusoidal Vibration	5

Physical Specifications

Length	403.77 mm
Width	87.1 mm
Height	121.3 mm
Weight	3.1 kilogram
Minimum Operating Temperature	0 °C
Maximum Operating Temperature	55 °C
Minimum Storage Temperature	-40 °C
Maximum Storage Temperature	85 °C
Maximum Altitude	2000 m

Pricing

Part Number	Description	Est Ship	US Dollars*	Qty
NI CompactDAQ Chassis				
782325-01	NI cDAQ-9139 NI CompactDAQ, Core i7 1.33 GHz, 8-slot, Windows	16 - 24	\$ 8,250.00	0
782326-01	NI cDAQ-9139 NI CompactDAQ, Core i7 1.33 GHz, 8-slot, Real-Time	16 - 24	\$ 8,250.00	0
Common Starter Accessories				
781093-01	NI PS-15 Power Supply, 24 VDC, 5 A, 100-120/200-240 VAC Input	6 - 9	\$ 240.00	0
779560-01	FPT-1015 15in. Flat Panel Touch Screen with VGA Interface and USB	9 - 14	\$ 1,705.00	0
779660-01	USB English Keyboard and Optical USB Mouse	9 - 14	\$ 45.00	0
778492-01	External USB CD/DVD-ROM for Use with PXI & VXI Emb Controllers	16 - 24	\$ 295.00	0
781988-01	Desktop Mounting Kit for CompactRIO 908x & CompactDAQ 913x	9 - 14	\$ 55.00	0
781919-01	Panel Mount Kit for CompactRIO 908x & CompactDAQ 913x Systems	9 - 14	\$ 65.00	0
781987-01	DIN Rail Mounting Kit for CompactRIO 908x & CompactDAQ 913x	9 - 14	\$ 30.00	0
151733-02	Cable Assembly, CAT-5E Ethernet, Thin Profile, 2M	9 - 14	\$ 10.00	0
196917-01	NI 9977 C Series Filler Module for Empty Slot	9 - 14	\$ 35.00	0

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