



Technical Sales
United States
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NI cRIO-9076

Integrated 400 MHz Real-Time Controller and LX45 FPGA

- Orderable now. Expected to ship in June 2011.
- Rugged, embedded control and monitoring system with -20 to 55 °C operating temperature range
- 400 MHz industrial real-time processor for control, data logging, and analysis
- 4-slot LX45 FPGA chassis for custom I/O timing, control, and processing
- 10/100BASE-T Ethernet port, USB 2.0 port, and RS232 serial port for connection to peripherals
- Small footprint suited for OEM applications with volume discounting available



Overview

The NI cRIO-9076 is orderable now and is expected to ship in June 2011.

The NI cRIO-9076 integrated system combines a real-time processor and a reconfigurable field-programmable gate array (FPGA) within the same chassis for embedded machine control and monitoring applications. It integrates a 400 MHz industrial real-time processor with an LX45 FPGA and has four slots for NI C Series I/O modules. For rugged applications, it offers a -20 to 55 °C operating temperature range along with a single 9 to 30 VDC power supply input range. The cRIO-9076 provides 256 MB of DRAM for embedded operation and 512 MB of nonvolatile memory for data logging.

The cRIO-9076 features a USB 2.0 port as well as a 10/100 Mbit/s Ethernet port that you can use to conduct programmatic communication over the network. It has built-in HTTP/FTP servers and a LabVIEW remote panel Web server for interfacing with HTML pages, files, and the user interface of embedded LabVIEW applications.

Several mounting options are available for the cRIO-9076, including desktop, panel, DIN rail, and rack mounting.

The small footprint and lower cost make the cRIO-9076 well-suited for high-volume and OEM applications. Aggressive OEM discounting is available.

Note: The NI Scan Engine is not supported on the cRIO-9076.

Specifications

Specifications Documents

- Specifications
- Data Sheet

Specifications Summary

General

Product Name	cRIO-9076
Form Factor	CompactRIO
Part Number	781716-01
Operating System/Target	Real-Time
LabVIEW RT Support	Yes
CE Compliance	Yes
Reconfigurable FPGA	
FPGA	Spartan-6 LX45
Chassis	
Number of Slots	4
Integrated Controller	Yes
Input Voltage Range	9 V , 30 V
Recommended Power Supply Power	24 W
Recommended Power Supply Voltage	24 V
Power Consumption	15 W
Physical Specifications	
Length	17.81 cm
Width	8.81 cm
Height	5.89 cm
Weight	643 gram
Minimum Operating Temperature	-20 °C
Maximum Operating Temperature	55 °C

Pricing

Part Number	Description	Est Ship	US Dollars*	Qty
NI cRIO-9076 Integrated System				
781716-01	Integrated Controller and Chassis System, 4-Slot LX 45 FPGA	Call	\$ 1,999.00	0
Accessories				
781093-01	NI PS-15 Power Supply, 24 VDC, 5 A, 100-120/200-240 VAC Input	2 - 5	\$ 209.00	0
780702-01	2-Position Screw Terminal Kit for Power Supply Connection, Qty 4	5 - 10	\$ 9.00	0

196375-01	NI 9971 Backshell for 2-pos connector block (qty 4)	5 - 10	\$ 29.00	0
196917-01	NI 9977 C Series Filler Module for Empty Slot	1 - 2	\$ 29.00	0
779473-01	NI 9901 Desktop Mounting Kit	1 - 2	\$ 49.00	0
779097-01	NI 9904 Horizontal Panel Mounting Kit for 4-slot Chassis	5 - 10	\$ 29.00	0
779019-01	NI 9912 DIN Rail Kit for 4-slot Chassis	5 - 10	\$ 29.00	0
779102-01	NI 9910 Industrial Sliding Rack Mounting Kit for cRIO/cDAQ	5 - 10	\$ 99.00	0
779454-01	NI 9917 Industrial Enclosure, solid door, w/panel	5 - 10	\$ 249.00	0
779455-01	NI 9918 Industrial Enclosure, windowed door, w/panel	5 - 10	\$ 399.00	0
781685-01	6" Industrial TPC with Win XP Embedded 1.33 Ghz Processor, 1GB RAM	5 - 10	\$ 1,399.00	0

* You have selected the United States as the country where you will use the product(s). Pricing may have changed since you printed this document on 07/12/2011. Please visit ni.com to see current pricing.

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Resources

Additional Product Information

- Manuals (5)
- Dimensional Drawings
- Product Certifications

Related Information

- NI CompactRIO Home Page
- Prototyping to Deployment With NI CompactRIO
- NI Graphical System Design Calculator: Build Versus Buy
- NI LabVIEW for Industrial Measurements and Control Applications
- Software Support for CompactRIO