



Technical Sales
United States
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NI cRIO-9074

Integrated 400 MHz Real-Time Controller and 2M Gate FPGA

- Rugged, embedded control and monitoring system
- 400 MHz industrial real-time processor for control, data logging, and analysis
- 2M gate, 8-slot FPGA chassis for custom I/O timing, control, and processing
- Two 10/100BASE-T Ethernet ports; RS232 serial port for connection to peripherals
- -20 to 55 °C operating temperature range; single 19 to 30 VDC power supply input
- Volume discounting available



Overview

The NI cRIO-9074 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 a 2M gate FPGA and has eight slots for NI C Series I/O modules. For rugged applications, the cRIO-9074 offers a -20 to 55 °C operating temperature range along with a single 19 to 30 VDC power supply input range. This system features 128 MB of DRAM for embedded operation and 256 MB of nonvolatile memory for data logging.

The cRIO-9074 features two 10/100 Mb/s Ethernet ports that you can use to conduct programmatic communication over the network and built-in Web (HTTP) and file (FTP) servers as well as to add expansion and distributed I/O to the system. For instance, you can use one Ethernet port for network communication to a host PC or enterprise system and the other port for expansion I/O (easily connect another CompactRIO system or other Ethernet-based device for additional I/O).

The cRIO-9074 lowers the cost of CompactRIO for high-volume and OEM applications. Aggressive OEM discounting is available.

Specifications

Specifications Documents

- Specifications
- Data Sheet

Specifications Summary

General	
Product Name	cRIO-9074
Form Factor	CompactRIO
Part Number	779999-01
Operating System/Target	Real-Time

LabVIEW RT Support	Yes
CE Compliance	Yes
Reconfigurable FPGA	
FPGA	Spartan-3
Gates	2000000
Chassis	
Number of Slots	8
Integrated Controller	Yes
Input Voltage Range	19 V , 30 V
Recommended Power Supply Power	48 W
Recommended Power Supply Voltage	24 V
Power Consumption	20 W
Physical Specifications	
Length	28.97 cm
Width	8.73 cm
Height	5.89 cm
Weight	929 gram
Minimum Operating Temperature	-20 °C
Maximum Operating Temperature	55 °C
Maximum Altitude	2000 m

Pricing

Part Number	Description	Est Ship	US Dollars*	Qty
NI cRIO-9074 Integrated System				
779999-01	cRIO-9074 8-Slot Integrated 400 MHz Real-Time Ctrlr, 2M Gate FPGA	1 - 2	\$ 2,699.00	0
Accessories				
781093-01	NI PS-15 Power Supply, 24 VDC, 5 A, 100-120/200-240 VAC Input	2 - 5	\$ 209.00	0
196938-01	NI 9978 4-pos screw terminal power supply plugs (quantity 5)	5 - 10	\$ 19.00	0
196939-01	NI 9979 Strain relief kit for 4-pos power connector	5 - 10	\$ 19.00	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
779558-01	NI 9905 Horizontal Panel Mounting Kit for 8-slot Chassis	5 - 10	\$ 29.00	0
779018-01	NI 9915 DIN Rail Kit for 8-slot Chassis	1 - 2	\$ 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
781690-01	12" Industrial TPC w/ Win XP Embedded 1.33 Ghz Processor,1GB RAM	5 - 10	\$ 2,299.00	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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- 2 . Once you have added your items to your cart, see the "Your Cart Options" section to place your order, obtain a quote, or print a fax form.

Order by Phone

Call (866) 531-6285 to place your order or obtain a quote.

Resources

Additional Product Information

- Manuals (6)
- Dimensional Drawings
- Product Certifications

Related Information

- CompactRIO Home Page
- New CompactRIO Integrated Systems
- Software Support for CompactRIO