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Find the *National Instruments cRIO-9012* at our website: ***Click HERE***

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NI cRIO-9014

Real-Time Controller with 128 MB DRAM, 2 GB Storage

- Embedded controller runs LabVIEW Real-Time for deterministic control, data logging, and analysis
- 400 MHz processor, 2 GB nonvolatile storage, 128 MB DRAM memory
- 10/100BASE-T Ethernet port with embedded Web and file servers with remote-panel user interface
- Full-speed USB host port for connection to USB flash and memory devices
- RS232 serial port for connection to peripherals; dual 9 to 35 VDC supply inputs
- -40 to 70 °C operating temperature range



Overview

The NI cRIO-9014 embedded real-time controller features an industrial 400 MHz Freescale MPC5200 real-time processor for deterministic, reliable real-time applications. The cRIO-9014 contains 128 MB of DRAM memory and 2 GB of nonvolatile storage. The CompactRIO embedded controller is designed for extreme ruggedness, reliability, and low power consumption with dual 9 to 35 VDC supply inputs that deliver power to the CompactRIO chassis/modules and a -40 to 70 °C operating temperature range. The cRIO-9014 accepts 9 to 35 VDC power supply inputs on power-up and 6 to 35 VDC power supply inputs during operation, so it can function for long periods of time in remote applications using a battery or solar power.

With the 10/100 Mbits/s Ethernet port, you can conduct programmatic communication over the network and built-in Web (HTTP) and file (FTP) servers. For additional storage capability, the cRIO-9014 has a full-speed USB host port to which you can connect external USB-based storage media (flash drives and hard drives) for embedded logging applications requiring additional storage. Also, there is a fault-tolerant file system embedded in the cRIO-9014 that provides increased reliability for data-logging applications.

The cRIO-9014 runs the NI LabVIEW Real-Time Module on the VxWorks real-time operating system (RTOS) for extreme reliability and determinism. With the cRIO-9014 real-time controller, you can use the leading VxWorks RTOS technology to quickly design, prototype, and deploy a customizable COTS embedded system using LabVIEW graphical programming tools.

Specifications

Specifications Documents

- Specifications
- Data Sheet

Specifications Summary

General	
Product Name	cRIO-9014
Product Type	Controller (Computing Device)

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Form Factor	CompactRIO
Part Number	779564-01
Operating System/Target	Real-Time
LabVIEW RT Support	Yes
CE Compliance	Yes
Controller	
Controller Type	Rugged Performance
Processor Core Type	PowerPC
CPU Clock Frequency	400 MHz
System Memory	128 MB
Legacy Product	No
Ethernet (# of ports)	1
Ethernet Port Type	100BaseT , 10BaseT
Serial Ports (RS232)	1
USB Ports	Yes
Chassis	
Number of Slots	0
Input Voltage Range	6 V , 35 V
Recommended Power Supply: Power	48
Recommended Power Supply: Voltage	24
Power Consumption	20
Physical Specifications	
Length	8.81 cm
Width	7.73 cm
Height	9.02 cm
Weight	488 gram
Minimum Operating Temperature	-40 °C
Maximum Operating Temperature	70 °C
Maximum Altitude	2000 m

Pricing

Part Number	Description	Est Ship	US Dollars*	Qty
NI cRIO-9014				
779564-01	cRIO-9014 Real-Time PowerPC Controller for cRIO, 2 GB Storage	1 - 2	$ 2,900.00	0
779564-02	CRIO-9014 REAL-TIME PowerPC Embedded Ctrlr, Conformal Coat	Call	$ 3,415.00	0
Accessories				
782698-01	NI PS-10 Desktop Power Supply 24 VDC, 5A, 100-120/200-240 VAC	12 - 20	$ 165.00	0
781093-01	NI PS-15 Power Supply, 24 VDC, 5 A, 100-120/200-240 VAC Input	2 - 5	$ 219.00	0
196938-01	NI 9978 4-pos screw terminal power supply plugs (quantity 5)	5 - 10	$ 21.00	0
196939-01	NI 9979 Strain relief kit for 4-pos power connector	5 - 10	$ 21.00	0
780716-01	Panel Mounting kit for cRIO-9022 Controller W/O Chassis	12 - 20	$ 95.00	0
780679-01	DIN-Rail Mounting kit for cRIO-9022 Controller W/O Chassis	5 - 10	$ 95.00	0
781848-01	6" Industrial TPC w/ WES7 and LabVIEW TPM Deployment License	5 - 10	$ 1,499.00	0
781849-01	12" Industrial TPC w/ WES7 and LabVIEW TPM Deployment License	5 - 10	$ 2,399.00	0
782734-01	Moxa 5-Port, Industrial Unmanaged Ethernet Switch	12 - 20	$ 229.00	0
782735-01	Moxa 5-Port, Industrial Unmanaged Gigabit Ethernet Switch	12 - 20	$ 499.00	0
184125-01	Hi-Speed USB Cable, 1 m	5 - 10	$ 21.00	0
184125-02	Hi-Speed USB Cable, 2 m	5 - 10	$ 31.00	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 04/19/2013. Please visit *ni.com* to see current pricing.

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Resources

Additional Product Information

- Manuals (6)
- Dimensional Drawings (6)
- Product Certifications (2)

Related Information

- NI CompactRIO
- Configure Your CompactRIO System
- Software Support and Compatibility for CompactRIO

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