NI PCI-6713

12-Bit, 1 MS/s per Channel Analog Output Board

- ◦ 8 channels
- ◦ 1 MS/s maximum update rate
- ◦ 8 (5 V TTL/CMOS) digital I/O lines
- ◦ Digital triggering and external clocking
- ◦ 2 up/down counter/timers, 24-bit resolution
- ◦ NI-DAQmx driver with configuration utility to simplify configuration and measurements

Overview

The NI PCI-6713 is a 12-bit high-speed analog output board. It provides up to 1 MS/s per channel on eight analog outputs. In addition, the board features eight digital I/O lines; two 24-bit, 20 MHz counter/timers; and digital triggering capability.

Specifications

Specifications Documents

Specifications

Data Sheet

Specifications Summary

General

Product Name	PCI-6713
Product Family	Multifunction Data Acquisition
Form Factor	PCI
Operating System/Target	Mac OS , Real-Time , Windows , Linux
RoHS Compliant	No

Analog Input

Channels	0 , 0
Single-Ended Channels	0
Differential Channels	0

Analog Output

Channels	8
Resolution	12 bits
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	8.62 mV
Minimum Voltage Range	-10 V , 10 V
Minimum Voltage Range Accuracy	8.62 mV
Update Rate	1 MS/s
Current Drive Single	5 mA
Current Drive All	40 mA

Digital I/O

Bidirectional Channels	8
Input-Only Channels	0
Output-Only Channels	0
Number of Channels	8 , 0 , 0
Timing	Software
Logic Levels	TTL
Input Current Flow	Sinking , Sourcing
Output Current Flow	Sinking , Sourcing
Programmable Input Filters	No
Supports Programmable Power-Up States?	No
Current Drive Single	24 mA
Current Drive All	192 mA
Watchdog Timer	No
Supports Handshaking I/O?	No
Supports Pattern I/O?	No
Maximum Input Range	0 V , 5 V
Maximum Output Range	0 V , 5 V

Counter/Timers

Counters	2
Number of DMA Channels	1
Buffered Operations	Yes
Debouncing/Glitch Removal	No
GPS Synchronization	No
Maximum Range	0 V , 5 V
Max Source Frequency	20 MHz

Minimum Input Pulse Width	50 ns
Pulse Generation	Yes
Resolution	24 bits
Timebase Stability	100 ppm
Logic Levels	TTL

Physical Specifications

Length	17.5 cm
Width	10.7 cm
I/O Connector	68-pin male SCSI-II type

Timing/Triggering/Synchronization

Triggering	Digital