

PCI-9812/10



Analog Input (Ultra high speed)
20M S/s at 12/10-bit (4 SE)



Digital I/O
3x TTL

20 MHz Analog Input Card

Ultra high-speed Analog Input and Digital I/O

Analog Input (A/D)

Max. Sampling Rate

20 MHz samples/sec per channel

Converter

B.B. ADS800 series

Input Channels

4 single-ended

Resolution

12-bit for PCI-9812

10-bit for PCI-9810

Onboard Memory

64 KB FIFO

Input Range

Bipolar ± 5 V, ± 1 V

Input Impedance

50 / 1.25K / 15M Ω

Trigger Source

Software Trigger, Analog threshold comparator using internal D/A to set trigger level, and External digital trigger

Data Transfer

Bus mastering DMA mode

Clock Source

Internal clock, external digital clock, external sine wave.

Trigger Mode

Software trigger, Delay trigger, Pre-trigger, Post-trigger, and Middle-trigger

Accuracy

Gain error $\pm 1.5\%$

Digital Input

Channels

3 TTL compatible inputs and outputs

Input Voltage

Low : Min. 0 V, Max. 0.8 V

High : Min. +2.0 V

Input Load

Low: +0.5 V @ 0.2 mA max.

High: +2.7 V @ 20 mA max.

Physical / Environmental

Connectors

5 BNC-type for analog Input
(channel 0, 1, 2, 3 and external clock)

9-pin header for digital input and trigger input

Operating Temperature

0°C ~ 50°C

Storage Temperature

-20°C ~ 80°C

Humidity

5 ~ 85%, non-condensing

Power Consumption

+5 V @ 1.4 A typical

Dimensions

Compact size, only 108 (H) x 173 (L) mm

Ordering Information

PCI-9812 4-channel, 12-bit Ultrahigh Speed Analog Input Card

PCI-9810 4-channel, 10-bit Ultrahigh Speed Analog Input Card