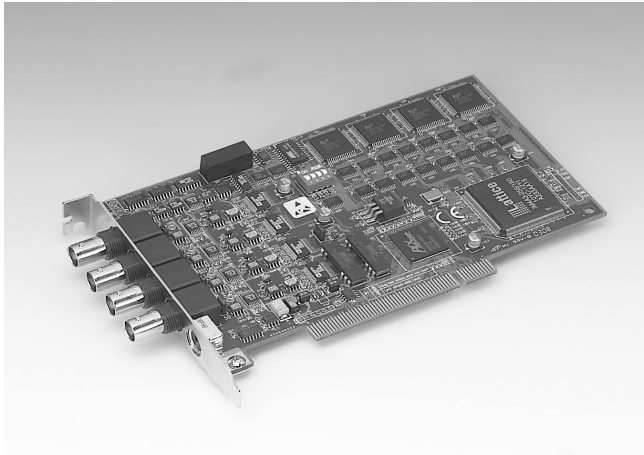


# PCI-1714

## 30 MS/s Simultaneous 4-ch Analog Input Card



### Features

- 12-bit A/D converter up to 30 MS/s
- 4 single-ended analog input channels
- Programmable gain for each input channel
- 32 K samples on board FIFO memory
- 4 A/D converters simultaneously sampling
- Multiple A/D triggering modes
- Programmable pacer/counter
- Board ID

### Introduction

The PCI-1714 is an advanced-performance data acquisition card based on 32-bit PCI bus architecture. The maximum sampling rate of PCI-1714 is up to 30 MS/s, with an emphasis on continuous, non-stop, high-speed, streaming data of A/D samples to host memory.

### Specifications

#### Analog Input

- **Channels** 4 single-ended analog input channels
- **Resolution** 12-bit
- **FIFO Size** 32 K samples/ch
- **Max. Sampling Rate** Up to 30 MS/s

Conversion Time	500 ns	Common mode voltage		±11 V max. (operational)	
Input range and Gain List	Gain	1	2	5	10
	Range	±5V	±2.5V	±1V	±0.5V
Drift	Gain	1	2	5	10
	Zero (µV/° C)	±30	±30	±30	±30
	Gain (ppm/° C)	±30	±30	±30	±30
Small Signal Bandwidth for PGA	Gain	1	2	5	10
	Bandwidth	7 MHz	7 MHz	7 MHz	7 MHz
Max. Input Voltage	±15 V		Input Surge Protect		30 Vp-p

- **Input Impedance** 50Ω/1MΩ/∞ jumper selectable 100pF
- **Trigger Mode** Software, pacer, post-trigger, pre-trigger, delay-trigger, about-trigger

Accuracy	DC	DNLE: ±1LSB (No Missing Codes: 12 Bits Guaranteed)	
		INLE: ±2LSB	
	Offset error	Adjustable to ±1LSB	
	Gain error	Adjustable to ±1LSB	
AC	SINAD: S/(N+D): 68 dB		
	ENOB: 11 bits THD: -75 dB		
External TTL Trigger Input	Logic level	Low: 0.8 V max. High: 2.0 V min.	
	Input impedance	50 ohms	
	Input coupled	DC	
External Sin Wave Trigger Input	Logic level	2.0V peak to peak	
	Input impedance	50 Ω	
	Input coupled	AC	
External Analog Trigger Input	Range	By analog input range	
	Resolution	8-bit	

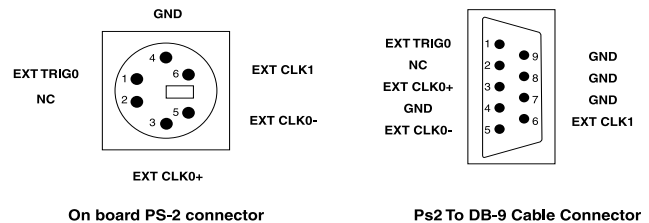
#### General

- **I/O Connector Type** 4 BNC connector (for AI)  
1 PS2 connector (for Ext. clock and trig)
- **Dimensions** 137 x 107 mm (5.4" x 4.2")
- **Power Consumption** Typical +5 V @ 850 mA ; +12 V @ 600 mA  
Max. +5 V @ 1 A ; +12 V @ 700mA
- **Operating Temperature** 0 ~ 70° C (32~158° F)
- **Storage Temperature** -20 ~ 85° C (-4~185° F)
- **Relative Humidity** 5 ~ 95%RH non-condensing (refer to IEC 68-2-3)
- **Certifications** CE

### Ordering Information

- **PCI-1714** 30 MHz Simultaneous 4-ch Analog Input Card, user's manual and driver CD-ROM (PCL-10901-1 cable included)
- **ADAM-3909** DB-9 Wiring Terminal for DIN-rail Mounting
- **PCL-10901-1** PS2 to DB-9 Wiring Cable, 1 m
- **PCL-10901-3** PS2 to DB-9 Wiring Cable, 3 m
- **PCL-1010B-1** BNC to BNC Wiring Cable, 1 m

### Pin Assignments



1  
IPPC & AWS

2  
TPC

3  
FPM

4  
ATM

5  
DA&C

6  
cPCI

7  
ADAM-3000

8  
eConnectivity

9  
ICOM

10  
Software

11  
UNO-2000/3000

12  
VBOX

13  
ADAM-4000

14  
ADAM-5000

15  
ADAM-6000

16  
ADAM-8000