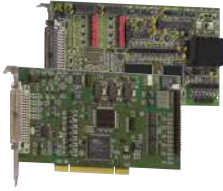


# PCI measurement

## Overview of the analog I/O boards

Multifunction, analog input and analog output boards for 3.3 V or 5 V PCI



	Multifunction boards				Analog input boards					Analog output boards	
	APCI-3120 CPCI-3120	APCI-3110	APCI-3116	APCI-3122	APCI-3010	APCI-3016	APCI-3002	APCI-3003	APCI-3001 CPCI-3001	APCI-3504	APCI-3501
<b>32-bit PCI bus</b>	3.3/5 V	3.3/5 V	3.3/5 V	5 V	3.3/5 V	3.3/5 V	3.3/5 V	3.3/5 V	3.3/5 V	5 V	3.3/5 V
<b>CompactPCI bus</b>	3.3/5 V								3.3/5 V		
Simultaneous acquisition								✓			
Analog inputs											
Single Ended	16/8	16/8	16/8		16/8/4	16/8/4			16/8/4		
Differential	8/4	8/4	8/4		8/4/2	8/4/2	16		8/4		
Diff. separated from each other								4			
Resolution (-bit)	16	12	16		12	16	16	16	12		
Optical isolation	500 V	✓	✓		✓	✓	✓	✓	✓		
Throughput (kHz)	100	200	200		200	200	200	400/ channel	100		
Voltage range											
0-10 V; ± 10 V / 0-5 V; ± 5 V 0-2 V; ± 2 V / 0-1 V; ± 1 V	✓	✓	✓		✓	✓	✓	✓	✓		
Other ranges (optional)	0-20 mA	0-20 mA	0-20 mA		0-20 mA	0-20 mA	0-20 mA	0-20 mA	0-20 mA		
Gain 1, 2, 5, 10	✓	✓	✓		✓	✓	✓	✓	✓		
FIFO (value)	256	512	512		512	512	512	1024	256		
<b>Functions of the analog inputs</b>											
DMA (scatter gather, single, continuous, Sequence)		✓	✓		✓	✓	✓	✓			
DMA (single, continuous, Sequence)	✓								✓		
Auto Refresh		✓	✓		✓	✓	✓	✓			
Interrupt	✓	✓	✓		✓	✓	✓	✓	✓		
Programmed I/O	✓	✓	✓		✓	✓	✓	✓	✓		
<b>Trigger:</b>											
Software	✓	✓	✓		✓	✓	✓	✓	✓		
TTL input	-	✓	✓		✓	✓	✓	✓	✓		
24 V input	✓	✓	✓		✓	✓	✓	✓	✓		
Sequence RAM	✓	✓	✓		✓	✓	✓	✓	✓		
<b>Analog outputs</b>	4 or 8	4	4	4						4	4 or 8
Resolution (-bit)	14	12	12	12						12	14
Optical isolation	✓	✓	✓	✓						✓	✓
0-10 V ± 10 V	✓	✓	✓	✓						✓	✓
Other ranges										0-20 mA	
Setup time	30 µs	15 µs	15 µs	15 µs						15 µs	30 µs
<b>Digital I/O</b>											
24 V inputs, optically isolated	4	4	4	10	4	4	4	4	4		2
24 V outputs, optically isolated	4(OpenC)	4(50mA)	4(50mA)	12(500mA)	4(50mA)	4(50mA)	4(50mA)	4(50mA)	4(OpenC)		2(OpenC)
TTL I/O		24	24		24	24					
<b>Timer/Counter/Watchdog (depth) and/or</b>	1/-/1 24-bit	3/3/2 16-bit	3/3/2 16-bit		3/3/1 16-bit	3/3/1 16-bit	1/-/- 16-bit	1/-/- 16-bit	1/-/- 16-bit	1/-/- 12-bit	1/-/- 12-bit
Page	82 / 130	84	84	86	88	84	90	92	94 / 132	96	98
Software	Drivers for Windows Vista (32-bit)/XP/2000/NT/98; Linux; LabView; LabWindows CVI + Samples Current driver list on the web: <a href="http://www.addi-data.com">www.addi-data.com</a>										