


Overview of the digital I/O and relay output boards



	Digital I/O, 24 V				Digital input, 24 V		Digital output, 24 V		Relay board	Digital I/O, TTL
	APCI-1500 CPCI-1500	APCI-1516	APCI-1564 APCI-1564-5V	APCI-1564_3.3V	APCI-1032 APCI-1032-5	APCI-1016	APCI-2032 APCI-2032-5	APCI-2016	APCI-2200_3.3V APCI-2200	APCI-1648 APCI-1696
32-bit PCI bus	PCI 5 V / CPCI	5 V	5 V	3.3 V	5 V	5 V	5 V	5 V	3.3 V / 5 V	3.3 V / 5 V
Filters and protective circuitry	✓	✓	✓		✓	✓	✓	✓	✓	✓
Input channels	16	8	32		32	16				
Optical isolation 1000 V	✓	✓	✓		✓	✓				
Interruptible input channels	14		16		16					
Nominal voltage (V) DC (V)	24 (19-30)	24 (19-30)	24 (19-30) 5 V (APCI-1564-5V)		24 (19-30) 5 V (APCI-1032-5)	24 (19-26)				
Input current at 24 VDC	6 mA	6 mA	5 mA		5 mA	6 mA				
Output channels (24 V high-side drivers)	16	8	32				32	16		48 TTL (APCI-1648) 96 TTL (APCI-1696)
Relays									8/16 relays	
Optical isolation 1000 V	✓	✓	✓				✓	✓	✓	
Nominal voltage (V)	24 DC (10-36)	24 DC (10-36)	24 DC (10-36) 5 V (APCI-1564-5V)				24 DC (10-36) 5 V (APCI-2032-5)	24 DC (10-36)	60 DC 48 AC	TTL
Output current (A) for one channel	0.5 ⁽¹⁾	0.5 ⁽¹⁾	0.5 ⁽¹⁾				0.5 ⁽²⁾	0.5 ⁽²⁾	1	12 LS TTL Loads
Watchdog (depth)	✓ (16-bit)	✓ (8-bit)	✓ (8-bit)				✓ (8-bit)	✓ (8-bit)	✓ (8-bit)	
Timer / Counter (depth)	3/ (16-bit)		1/3 (32-bit)							
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Software	Drivers for Windows Vista (32-bit)/XP/2000/NT/98, Linux; LabVIEW™, LabWindows CVI™ + Samples. Current driver list on the web: www.addi-data.com									

(1) Limited to 3 A for all outputs, self-resetting fuse against short circuits

(2) Limited to 2x3 A for all outputs, self-resetting fuse against short circuits