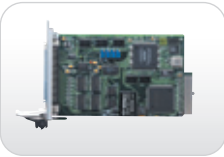


PXI/CompactPCI Modules

	Multi-Function DAQ Modules			Analog Output Modules	
					
Model Name	cPCI-9116/R	cPCI-9112/R	cPCI-6216V/VR	cPCI-6208V/VR	cPCI-6208A/AR
3.3 V or 5 V V(I/O)	5 V	5 V	3.3 V/5 V	3.3 V/5 V ⁽³⁾	3.3 V/5 V ⁽³⁾
Bus-mastering DMA	●	●	—	—	—
Rear I/O available ⁽²⁾	●	●	●	●	●
Analog Input					
Analog Inputs	64 SE/ 32 DI	16 SE/ 8 DI	—	—	—
Max. Sampling Rate (S/s)	250 k	110 k	—	—	—
Simultaneous Sampling	—	—	—	—	—
AD Resolution (bits)	16	12	—	—	—
FIFO Size (samples)	1 k	1 k	—	—	—
Channel-gain Queue	512	—	—	—	—
Bipolar Input Ranges	±5 V, ±2.5 V, ±1.25 V, ±0.625 V	±10 V, ±5 V, ±2.5 V, ±1.25 V, ±0.625 V	—	—	—
Unipolar Input Ranges	0-10 V, 0-5 V, 0-2.5 V, 0-1.25 V	0-10 V, 0-5 V, 0-2.5 V, 0-1.25 V	—	—	—
Analog Output					
Voltage Outputs	—	2	16	8	8
Current Outputs	—	—	—	—	8
Update Rate (S/s)	—	33 k ⁽¹⁾	454 k ⁽¹⁾	454 k ⁽¹⁾	454 k ⁽¹⁾
Simultaneous Update	—	—	—	—	—
DA Resolution (bits)	—	12	16	16	16
FIFO Size (samples)	—	—	—	—	—
Settling Time	—	30 μs	4 μs	4 μs	17 μs
Analog Output Ranges	—	0-5 V, 0-10 V, 0-EXTREF	±10 V	±10 V	±10 V
Current Output Ranges	—	—	—	—	0-20 mA, 4-20 mA, 5-25 mA
Digital I/O, Timer/Counter, and External Trigger					
Digital I/O	8 DI, 8 DO	16 DI, 16 DO	4 DI, 4 DO	4 DI, 4 DO	4 DI, 4 DO
Timer/Counter	1-CH 16-bit	1-CH 16-bit	—	—	—
Analog Trigger	—	—	—	—	—
Digital Trigger	Yes	—	—	—	—
Page Number	4-2	4-3	4-4	4-4	4-4

Legend: ● Supported — Not available

Notes:

- (1) Actual maximum update rate is dependent on system performance.
 (2) Rear I/O modules can not be used in PXI platforms due to signal conflicts.
 (3) The front I/O modules support only 5V signaling.

6U PXI/CompactPCI I/O Modules

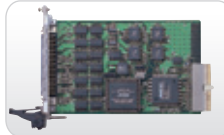
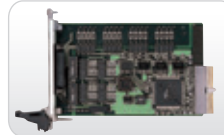
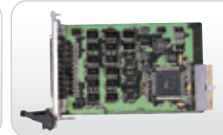
There are three ways to migrate to 6U PXI/CompactPCI systems:

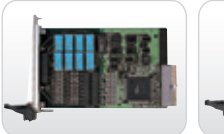
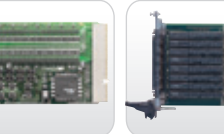
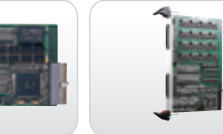
- Modify the mechanism of the existing 3U PXI/CompactPCI I/O modules. After changing the front panel of 3U I/O module to 6U front panel with two handles, the 3U module can be inserted into any 6U slot.
- To order a 6U version of the module, append /6U after a 3U I/O module model number. For example, cPCI-7200/6U is cPCI-7200 with 6U front panel.
- ADLINK PXI/CompactPCI Design Center can help you to migrate from ISA or PCI to 3U or 6U PXI/CompactPCI interface.

We provide ODM service for software and hardware of DAQ, industrial I/O, motion, and communication interface modules.



PXI/CompactPCI DIO Modules

Digital I/O Modules					
					
Model Number	cPCI-7300	cPCI-7200	cPCI-7230	cPCI-7248	cPCI-7249R
3.3 V or 5 V V(I/O)	5 V	5 V	5 V	5 V	5 V
Bus-mastering DMA	Scatter-gather	●	—	—	—
Rear I/O available ⁽²⁾	—	—	—	—	● ⁽³⁾
Isolation	—	—	●	—	—
High-Speed Digital I/O					
No. of Channels	2 x 16-bit DIO	32 DI, 32 DO	—	2 x 24-bit 8255 PIO	2 x 24-bit 8255 PIO
Transfer Rate (Byte/s)	80 M	12 M	—	500 k ⁽¹⁾	500 k ⁽¹⁾
FIFO Size (words)	32 k	2 k	—	—	—
Logic Standard	5 V/TTL	5 V/TTL	—	5 V/TTL	5 V/TTL
Handshaking Transfer	●	●	—	—	—
Dedicated Inputs					
No. of Channels	4	4	16 + COS ⁽⁴⁾	—	—
Max. Sampling Rate (Hz) ⁽¹⁾	500 k	500 k	10 k	—	—
Logic Standard	5 V/TTL	5 V/TTL	V _{IH} = 3-24 V V _{IL} = 0-1 V	—	—
Dedicated Output					
No. of Channels	4	4	16	—	—
Max. Update Rate (Hz) ⁽¹⁾	500 k	500 k	10 k	—	—
Output Type	5 V/TTL	5 V/TTL	Darlington	—	—
Timer/Counter					
Timer/Counter	—	—	—	1-CH 16-bit counter 1-CH 32-bit timer	1-CH 16-bit counter 1-CH 32-bit timer
Page Number	4-6	4-7	4-9	4-14	4-14

Digital I/O Modules					
					
Model Number	cPCI-7252	cPCI-7432/R	cPCI-7433/R	cPCI-7434/R	cPCI-7452
3.3 V or 5 V V(I/O)	5 V	3.3 V/5 V ⁽⁵⁾	5 V	5 V	3.3 V/5 V
Bus-mastering DMA	—	—	—	—	—
Rear I/O available ⁽²⁾	—	●	●	●	●
Isolation	●	●	●	●	●
High-Speed Digital I/O					
No. of Channels	—	—	—	—	—
Transfer Rate (Byte/s)	—	—	—	—	—
FIFO Size (words)	—	—	—	—	—
Logic Standard	—	—	—	—	—
Handshaking Transfer	—	—	—	—	—
Dedicated Inputs					
No. of Channels	16	32	64	—	128 + COS ⁽⁴⁾
Max. Sampling Rate (Hz) ⁽¹⁾	—	10 k	10 k	—	10 k
Logic Standard	V _{IH} = 3-24 V V _{IL} = 0-1 V	V _{IH} = 5-24 V V _{IL} = 0-1.5 V	V _{IH} = 5-24 V V _{IL} = 0-1.5 V	—	V _{IH} = 5-28 V V _{IL} = 0-1.5 V
Dedicated Output					
No. of Channels	8	32	—	64	128
Max. Update Rate (Hz) ⁽¹⁾	—	10 k	—	10 k	10 k
Output Type	Relay	Darlington	—	Darlington	Darlington
Timer/Counter					
Timer/Counter	—	—	—	—	—
Page Number	4-8	4-10	4-10	4-10	4-12

Legend: ● Supported — Not available

Notes: (1) Actual maximum update rate is dependent on system performance.
 (2) Rear I/O modules can not be used in PXI platforms due to signal conflicts
 (3) No front I/O modules available
 (4) Change Of State detection
 (5) The front I/O modules support only 5V signaling

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