

PCI/PCI Express DIO Cards

Digital I/O Modules									
Model Name	PCI-7250 PCI-7251	LPCI-7250	PCI-7260 PCI-7256	PCI-7258	PCI-8554	PCI-7442	PCI-7443	PCI-7444	PCI-7432 PCI-7433 PCI-7434
3.3 V or 5 V PCI	5 V	3.3 V/5 V	3.3 V/5 V	3.3 V/5 V	5 V	3.3 V/5 V	3.3 V/5 V	3.3 V/5 V	5 V
Form Factor	PCI	Low-Profile PCI	PCI	PCI	PCI	PCI	PCI	PCI	PCI
Bus-mastering	-	-	-	-	-	-	-	-	-
DMA	-	-	-	-	-	-	-	-	-
Isolation	●	●	●	●	-	●	●	●	●
Dedicated Inputs									
No. of Channels	8	8	8/16 + COS ⁽²⁾	2	8	64 + COS ⁽²⁾	128 + COS ⁽²⁾	-	32 / 64 / -
Max. Sampling Rate (Hz) ⁽¹⁾	10 k	10 k	10 k	10 k	500 k	10 k	10 k	-	10 k / 10 k / -
Logic Standard	V _{IH} =5-24 V V _{IL} =0-1.5 V	V _{IH} =5-24 V V _{IL} =0-1.5 V	V _{IH} =10-24 V V _{IL} =0-2 V	V _{IH} =5-24 V V _{IL} =0-1.5 V	5 V/TTL	V _{IH} =5-28 V V _{IL} =0-1.5 V	V _{IH} =5-28 V V _{IL} =0-1.5 V	-	V _{IH} =5-24 V; V _{IL} =0-1.5 V V _{IH} =5-24 V; V _{IL} =0-1.5 V
Dedicated Outputs									
No. of Channels	8	8	8/16	32	8	64	-	128	32 / - / 64
Max. Update Rate (Hz) ⁽¹⁾	-	-	-	-	500 k	10 k	-	10 k	10 k / - / 10 k
Relay Operate/Release Time	8 ms/8 ms	8 ms/8 ms	10 ms/10 ms 3 ms/3 ms	0.23 ms/0.04 ms	-	-	-	-	-
Output Type	Relay	Relay	Relay	PhotoMos Relay	5 V/TTL	Power MOSFET	-	Power MOSFET	Darlington - Darlington
Timer/Counter									
Timer/Counter	-	-	-	-	10, 16-bit	-	-	-	-
Page Number	8-1	8-1	8-2/8-3	8-4	8-5	8-6	8-6	8-6	8-8

Digital I/O Modules									
Model Name	PCI-7300A/ PCIe-7300A	PCI-7200	LPCI-7200S	PCI-7230	LPCI-7230	PCI-7233	PCI-7234P PCI-7234	PCI-7296 PCI-7248 PCI-7224	PCI-7396 PCI-7348
3.3 V or 5 V PCI	5 V ⁽⁴⁾	5 V	3.3 V/5 V	5 V	3.3 V/5 V	5 V	5 V	5 V	5 V
Form Factor	PCI/PCI Express [®]	PCI	Low-Profile PCI	PCI	Low-Profile PCI	PCI	PCI	PCI	PCI
Bus-mastering	●	●	●	-	-	-	-	-	-
DMA	-	-	-	-	-	-	-	-	-
Isolation	-	-	-	●	●	●	●	-	-
High-Speed Digital I/O									
No. of Channels	2 x 16-bit DIO	32 DI, 32 DO	32 DI, 32 DO	-	-	-	-	4/2/1 x 24-bit 8255 PIO 500 k ⁽¹⁾	96/48 DIO + COS ⁽²⁾ 500 k ⁽¹⁾
Transfer Rate (Byte/s)	80 M	12 M	12 M	-	-	-	-	-	-
FIFO size (words)	32 k	-	-	-	-	-	-	-	-
Logic Standard	5 V/TTL	5 V/TTL	5 V/TTL	-	-	-	-	5 V/TTL	5 V/TTL
Handshaking Transfer	●	●	●	-	-	-	-	-	-
Dedicated Inputs									
No. of Channels	4	-	-	16	16	32 + COS ⁽²⁾	-	-	-
Max. Sampling Rate (Hz) ⁽¹⁾	500 k	-	-	10 k	10 k	10 k	-	-	-
Logic Standard	5 V/TTL	-	-	V _{IH} =5-24 V V _{IL} =0-1.5 V	V _{IH} =5-24 V V _{IL} =0-1.5 V	V _{IH} =5-24 V V _{IL} =0-1.5 V	-	-	-
Dedicated Outputs									
No. of Channels	4	-	-	16	16	-	32	-	-
Max. Update Rate (Hz) ⁽¹⁾	500 k	-	-	10 k	10 k	-	10 k	-	-
Output Type	5 V/TTL	-	-	Darlington	Darlington	-	Darlington ⁽³⁾	-	-
Timer/Counter									
Timer/Counter	-	-	-	-	-	-	-	-	-
Page Number	8-10	8-12	8-12	8-13	8-13	8-13	8-13	8-14	8-15

Legend: ● Supported – Not available

Notes: (1) Actual maximum update rate is dependent on system performance.

(2) Change-Of-State detection

(3) The PCI-7234P's outputs provide Darlington source drivers.

(4) 5 V PCI for PCI-7300A, PCIe-7300A requires 12 V & 3.3 V from PCIe bus