

[Product Lineup]

●ISA

Name	Channels		Signal Level	Response Time	Isolation	Internal Power	Input		
	Input	Output					Circuit	Resistance	
Opto-Isolated Digital I/O Type									
PI-32L(PC)V	32	—	12-24VDC	1msec (max)	○	—	Opto-Isolated (for high sink current output)	3kΩ	
PI-64L(PC)	64	—	12-24VDC	1msec (max)	○	—	Opto-Isolated (for high sink current output)	3kΩ	
PI-32RL(PC)	32	—	12-24VDC	1msec (max)	○	—	Opto-Isolated (for sourcing-type output)	3kΩ	
PO-32L(PC)V	—	32	12-24VDC	1msec (max)	○	—	—	—	
PO-64L(PC)	—	64	12-24VDC	1msec (max)	○	—	—	—	
PO-32RL(PC)	—	32	12-24VDC	1msec (max)	○	—	—	—	
PIO-16/16L(PC)V	16	16	12-24VDC	1msec (max)	○	—	Opto-Isolated (for high sink current output)	3kΩ	
PIO-32/32L(PC)	32	32	12-24VDC	1msec (max)	○	—	Opto-Isolated (for high sink current output)	3kΩ	
PIO-16/16RL(PC)	16	16	12-24VDC	1msec (max)	○	—	Opto-Isolated (for sourcing-type output)	3kΩ	
PIO32/32RL(PC)	32	32	12-24VDC	1msec (max)	○	—	Opto-Isolated (for sourcing-type output)	3kΩ	
PIO-24/24(PC)	24	24	12-24VDC	1msec (max)	○	—	Opto-Isolated (for high sink current output)	2kΩ	
IRT-16(PC)	16	—	12-24VDC *3	1msec (max)	○	—	Opto-Isolated (for high sink current output)	2kΩ	
Opto-Isolated Digital I/O Board with On-board 12V Power Supply									
PI-32B(PC)H	32	—	12-24VDC	1msec (max)	○	12VDC	Opto-Isolated (for high sink current output)	3kΩ	
PO-32B(PC)H	—	32	12-24VDC	1msec (max)	○	12VDC	—	—	
PIO-16/16B(PC)H	16	16	12-24VDC	1msec (max)	○	12VDC	Opto-Isolated (for high sink current output)	3kΩ	
PI-32TB(PC)	32	—	5VDC-TTL	1μsec (max)	○	5VDC	Opto-Isolated TTL	1.1kΩ	
PO-32TB(PC)	—	32	5VDC-TTL	1μsec (max)	○	5VDC	—	—	
PIO-16/16TB(PC)	16	16	5VDC-TTL	1μsec (max)	○	5VDC	Opto-Isolated TTL	1.1kΩ	
Reed Relay Output Board									
RRY-32(PC)	—	32	100VAC/DC	1msec (max)	○	—	—	—	
PRY-32(PC)	—	32	100VAC/DC	1msec (max)	○	—	—	—	
TTL-Level Digital I/O Board									
PI-32T(PC)H	32	—	5VDC-TTL	200nsec (max)	—	—	TTL level	10kΩ *1	
PI-64T(PC)	64	—	5VDC-TTL	200nsec (max)	—	—	TTL level	10kΩ *1	
PO-32T(PC)H	—	32	5VDC-TTL	200nsec (max)	—	—	—	—	
PO-64T(PC)	—	64	5VDC-TTL	200nsec (max)	—	—	—	—	
PIO-16/16T(PC)H	16	16	5VDC-TTL	200nsec (max)	—	—	TTL level	10kΩ *1	
PIO-32/32T(PC)	32	32	5VDC-TTL	200nsec (max)	—	—	TTL level	10kΩ *1	
Bi-Directional Digital I/O Board									
PIO-48D(PC)	48	—	5VDC-TTL	200nsec (max)	—	—	TTL level	10kΩ *1	
PIO-48W(PC)	48	—	5VDC-TTL	200nsec (max)	—	—	TTL level	10kΩ *1	
PIO-96W(PC)	96	—	5VDC-TTL	200nsec (max)	—	—	TTL level	20kΩ *1	
PIO-120D(PC)	120	—	5VDC-TTL	200nsec (max)	—	—	TTL level	10kΩ *1	
PIO-144W(PC)	144	—	5VDC-TTL	200nsec (max)	—	—	TTL level	22Ω	

●Product lineup for PCI, Compact PCI, PC Card and USB please see pages B-02, 03

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DIGITAL I/O

Product Lineup / Basic Knowledge

PCI

Compact PCI

PC Card

USB

Lineup (ISA)

ISA

*1: Pull up resistors
 *2: 16 channels share a positive common in external power supply.
 *3: The input type also can be TTL level input.

Output		Common	Expander function	Interrupt	Connector	Software		Page	Name
Output Type	Output Rating					ACX-PAC(W32)	API-PAC(W32)		
—	—	16	—	2 signals use two IRQs	37-pin D-type	○	○	B-22	PI-32L(PC)V
—	—	16	○	4 signals use four IRQs	96-pin Half Pitch	○	○	B-22	PI-64L(PC)
—	—	16	—	2 signals use two IRQs	37-pin D-type	○	○	B-22	PI-32RL(PC)
Opto-Isolated Open Collector Output (sinking type)	35VDC 100mA	16	—	—	37-pin D-type	○	○	B-23	PO-32L(PC)V
Opto-Isolated Open Collector Output (sinking type)	35VDC 150mA	16	○	—	96-pin Half Pitch	○	○	B-23	PO-64L(PC)
Opto-Isolated Output (current sourcing)	35VDC 150mA	16	—	—	37-pin D-type	○	○	B-23	PO-32RL(PC)
Opto-Isolated Open Collector Output (sinking type)	35VDC 100mA	16	—	2 signals use two IRQs	37-pin D-type	○	○	B-24	PIO-16/16L(PC)V
Opto-Isolated Open Collector Output (sinking type)	35VDC 150mA	16	○	4 signals use four IRQs	96-pin Half Pitch	○	○	B-24	PIO-32/32L(PC)
Opto-Isolated Output (current sourcing)	35VDC 150mA	16	—	2 signals use two IRQs	37-pin D-type	○	○	B-24	PIO-16/16RL(PC)
Opto-Isolated Output (current sourcing)	35VDC 150mA	16	○	4 signals use four IRQs	96-pin Half Pitch	○	○	B-24	PIO32/32RL(PC)
Opto-Isolated Open Collector Output (sinking type)	35VDC 200mA	16 or 8	—	4 signals use four IRQs	37-pin D-type	—	—	B-24	PIO-24/24(PC)
—	—	8	—	8 interrupt signals, 1 interrupt request	37-pin D-type	—	—	B-22	IRT-16(PC)
—	—	All channels are common *2	—	2 signals use two IRQs	37-pin D-type	○	○	B-22	PI-32B(PC)H
Opto-Isolated Open Collector Output (sinking type)	35VDC 100mA	All channels are common *2	—	—	37-pin D-type	○	○	B-23	PO-32B(PC)H
Opto-Isolated Open Collector Output (sinking type)	35VDC 100mA	All channels are common *2	—	2 signals use two IRQs	37-pin D-type	○	○	B-24	PIO-16/16B(PC)H
—	—	All channels are common *2	—	2 signals use two IRQs	37-pin D-type	○	○	B-22	PI-32TB(PC)
Opto-Isolated TTL Output	5VDC 6.4mA	All channels are common *2	—	—	37-pin D-type	○	○	B-23	PO-32TB(PC)
Opto-Isolated TTL Output	5VDC 6.4mA	All channels are common *2	—	2 signals use two IRQs	37-pin D-type	○	○	B-24	PIO-16/16TB(PC)
Reed Relay Output	100VAC/DC 0.5A	8	—	—	37-pin D-type	○	○	B-26	RRY-32(PC)
Photo MOS Relay Output	100VAC/DC 250mA	8	—	—	37-pin D-type	○	○	B-26	PRY-32(PC)
—	—	All channels are common	—	2 signals use two IRQs	37-pin D-type	○	○	B-22	PI-32T(PC)H
—	—	All channels are common	○	4 signals use four IRQs	96-pin Half Pitch	○	○	B-22	PI-64T(PC)
32 TTL compatible digital outputs	5VDC 40mA	All channels are common	—	—	37-pin D-type	○	○	B-23	PO-32T(PC)H
Open collector outputs	30VDC 40mA	All channels are common	○	—	96-pin Half Pitch	○	○	B-23	PO-64T(PC)
32 TTL compatible digital outputs	5VDC 40mA	All channels are common	—	2 signals use two IRQs	37-pin D-type	○	○	B-25	PIO-16/16T(PC)H
Open collector outputs	30VDC 40mA	All channels are common	○	4 signals use four IRQs	96-pin Half Pitch	○	○	B-25	PIO-32/32T(PC)
TTL Level Output with Buffer	5VDC 24mA	All channels are common	—	4 signals use four IRQs	50-pin Header	○	○	B-25	PIO-48D(PC)
TTL Level Output	5VDC 1mA	All channels are common	—	4 signals use four IRQs	37-pin D-type	○	○	B-25	PIO-48W(PC)
TTL Level Output	5VDC 1mA	All channels are common	—	8 signals 1 request	30-pin Header Connector	○	○	B-25	PIO-96W(PC)
TTL Level Output with Buffer	5VDC 24mA	All channels are common	—	10 signals 1 request	50-pin Header	○	○	B-25	PIO-120D(PC)
TTL Level Output	5VDC 1mA	All channels are common	—	6 signals use six IRQs	50-pin Header	○	○	B-25	PIO-144W(PC)

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DIGITAL I/O

Product Lineup /Basic Knowledge

PCI

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