
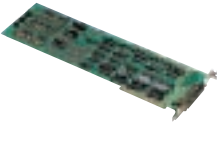



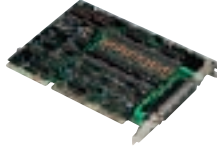



[Digital I/O] ISA

For the optional items, please refer to Page J-02 (Accessories & Cables) and Page I-01 (Software).

ISA	Model	Opto-Isolated Digital I/O Board			Opto-Isolated Digital I/O Board with On-Board 12V Power Supply
		PIO-16/16L(PC)V	PIO-24/24(PC)	PIO-32/32L(PC)	PIO-16/16B(PC)H
					
SPECIFICATIONS					
Input channels		16	24	32	16
Output channels		16	24	32	16
I/O	Signal level	DC12~24V			
	Internal power	-			
Circuit	Input type	Opto-Isolated Input (for current sinking output) (Negative logic)			
	Interrupt	Can use 2 lines simultaneously IRQ 3~7, 9~12, 14 and 15	Can use 4 lines simultaneously IRQ 3~7, 9	Can use 4 lines simultaneously IRQ 3~7, 9~12, 14 and 15	Can use 2 lines simultaneously IRQ 3~7, 9~12, 14 and 15
	Input resistance	3KΩ	2KΩ	3KΩ	
Output specification	Output type	Opto-Isolated Open Collector Output (current sinking type) (Negative logic)			
	Output rating	+35VDC 100mA	+35VDC 200mA	+35VDC 100mA	
Additional functions		-		Yes	-
Response time (Max.)		1msec			
Maximum distance		50m			
I/O address		Any 2-byte boundary	4 ports occupation	Any 4-byte boundary (normal) Any 16-byte boundary (optional)	Any 2-byte boundary
Power consumption (Max.)		+5VDC 50mA	+5VDC 750mA	+5VDC 180mA	+5VDC 50mA (External power) +5VDC 800mA (On-board power)
Bus / Dimension		ISA AT / 6.5"(L) x 4.75"(H)		ISA AT / 6.5"(L) x 4.75"(H)	
Connector		37-pin female D-type	Input: 30-pin header (male) Output: 37-pin female D-type	96-pin half pitch connector (male)	37-pin female D-type
Option	Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP, API-PAC(W32)		ACX-PAC(W32)BP, ACX-PAC(W32)AP, API-PAC(W32)	
	Accessories	DTP-3(PC), DTP-4(PC), EPD-37 *1, EPD-37A *1, CM-32(PC), CM-32(PC)E *1	DTP-3(PC), DTP-4(PC), EPD-37 *1, EPD-37A *1	DTP-3(PC) *2, DTP-4(PC) *2, DTP-64 *3, EPD-96 *3, CCB-96 *3, CM-32(PC) *2, CM-64(PC)E *3	DTP-3(PC), DTP-4(PC), EPD-37 *1, EPD-37A *1, CM-32(PC), CM-32(PC)E *1
	Cables / Connector	PCA37P, PCB37P, PCA37PS, PCB37PS	PCA37P, PCB37P, PCA37PS, PCB37PS, DT/O, DT/B2	PCA96P, PCB96P, PCB96W, PCA96PS, PCB96PS, PCB96WS	PCA37P, PCB37P, PCA37PS, PCB37PS
CE marking		Y	N	Y	Y

*1: Attached cables for connection with input part
 *1: Cable PCB37P or PCB37PS is required.
 *2: Cable PCB37W or PCB37WS is required.
 *3: Cable PCB96P or PCB96PS is required.

ISA	Model	Negative-Common Opto-Isolated Digital Output Board	Negative-Common Opto-Isolated I/O Output Board	
		PIO-16/16TB(PC)	PIO-16/16RL(PC)	PIO-32/32RL(PC)
				
SPECIFICATIONS				
Input channels		16		32
Output channels		16		32
I/O	Signal level	DC5V	DC12~24V	
	Internal power	+5VDC 250mA	-	
Input specification	Input type	Opto-Isolated TTL Input (Negative logic)	Opto-Isolated Input (for current sourcing output)	
	Interrupt	Can use 2 lines simultaneously IRQ 3~7, 9~12, 14 and 15	Can use 4 lines simultaneously IRQ 3~7, 9~12, 14 and 15	
	Input resistance	1.1KΩ	3KΩ	
Output specification	Output type	Opto-Isolated TTL (Negative logic)	Opto-Isolated Output (current sinking type)	
	Output rating	+5VDC 6.4mA	+35VDC 150mA	
Additional functions		-		Yes
Response time (Max.)		1μsec	1msec	
Maximum distance		5m	50m	
I/O address		Any 2-byte boundary		Any 4-byte boundary (normal) Any 16-byte boundary (optional)
Power consumption (Max.)		+5VDC 50mA (External power) +5VDC 1010mA (On-board power)	+5VDC 350mA	+5VDC 150mA
Bus / Dimension		ISA AT / 6.5"(L) x 4.75"(H)		
Connector		37-pin female D-type		96-pin half pitch connector (male)
Option	Software	ACX-PAC(W32)BP, ACX-PAC(W32)AP, API-PAC(W32)		
	Accessories	DTP-3(PC), DTP-4(PC), EPD-37 *1, EPD-37A *1, CM-32(PC), CM-32(PC)E *1	DTP-3(PC), DTP-4(PC), EPD-37A *1, EPD-37 *1	DTP-3(PC) *2, DTP-4(PC) *2, DTP-64 *3, EPD-96 *3
	Cables / Connector	PCA37P, PCB37P, PCA37PS, PCB37PS		PCA96P, PCB96P, PCB96W, PCA96PS, PCB96PS, PCB96WS
CE marking		Y	Y	Y

*1: Cable PCB37P or PCB37PS is required.
 *2: Cable PCB37W or PCB37WS is required.
 *3: Cable PCB96P or PCB96PS is required.