

[DIGITAL I/O] ISA Bus

For the optional items, please refer to Page J-02 (accessories and cables) and Page G-01 (support 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)	
Specification					
Input channels		16	24	32	16
Output channels		16	24	32	16
I/O Circuit	Signal level	+12~24VDC			
	Internal power	-			
Input specification	Input type	Opto-Isolated Input (for current sinking output) (Negative logic)			
	Interrupt	Usable 2 interrupt lines simultaneously from IRQ 3~7, 9~12, 14 and 15	Usable 4 interrupt lines simultaneously from IRQ 3~7, 9	Usable 4 interrupt lines simultaneously from IRQ 3~7, 9~12, 14 and 15	Usable 2 interrupt lines simultaneously from 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	
Expansion function		-			Yes
Response time (Max.)		1msec			-
Maximum distance		50m			30m
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 250mA	+5VDC 180mA	+5VDC 50mA (External power) +5VDC 800mA (On-board power)
Bus / Dimension (mm)		AT Bus / 163.0(L) x 122.0(H)		AT Bus / 163.0(L) x 122.0(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), SUPPORT-PAC(PC)601, DDE SERVER(W32)		ACX-PAC(W32)BP, ACX-PAC(W32)AP, API-PAC(W32), SUPPORT-PAC(PC)602, DDE SERVER(W32)	
	Accessories	DTP-3(PC), DTP-4(PC), EPD-37 *1, CM-32(PC), CM-32(PC)E *1		DTP-3(PC), DTP-4(PC), EPD-37 *1, DTP-64 *3, EPD-96 *3, CCB-96 *3, CM-32(PC) *2, CM-64(PC)E *3	
	Cables / Connector	PCA37P, PCB37P, PCA37PS, PCB37PS		PCA96P, PCB96P, PCB96W, PCA96PS, PCB96PS, PCB96WS	
CE marking		○		○	

*: Attached cables for connection with input port.
*1: Option cable of PCB37P or PCB37PS is required.
*2: Option cable of PCB96W or PCB96WS is required.
*3: Option cable of 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)	
Specification				
Input channels		16		32
Output channels		16		32
I/O Circuit	Signal level	+5VDC		+12~24VDC
	Internal power	+5VDC 250mA		-
Input specification	Input type	Opto-Isolated TTL Input (Negative logic)		Opto-Isolated Input (for current sourcing output)
	Interrupt	Usable 2 interrupt lines simultaneously from IRQ 3~7, 9~12, 14 and 15		Usable 4 interrupt lines simultaneously from
	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
Expansion function		-		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 550mA (External power) +5VDC 1010mA (On-board power)		+5VDC 350mA
Bus / Dimension (mm)		AT Bus / 163.0(L) x 122.0(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), SUPPORT-PAC(PC)601, DDE SERVER(W32)		ACX-PAC(W32)BP, ACX-PAC(W32)AP, API-PAC(W32), SUPPORT-PAC(PC)602, DDE SERVER(W32)
	Accessories	DTP-3(PC), DTP-4(PC), EPD-37 *1, CM-32(PC), CM-32(PC)E *1		DTP-3(PC), DTP-4(PC), EPD-37 *1, DTP-64 *3, EPD-96 *3
	Cables / Connector	PCA37P, PCB37P, PCA37PS, PCB37PS		PCA96P, PCB96P, PCB96W, PCA96PS, PCB96PS, PCB96WS
CE marking		○		○

*1: Option cable of PCB37P or PCB37PS is required.
*2: Option cable of PCB96W or PCB96WS is required.
*3: Option cable of PCB96P or PCB96PS is required.